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Beach Seine Data From the Fraser River Downstream From Port Mann During 1988

T. R. Whitehouse and C. D. Levings

Department of Fisheries and Oceans
Biological Sciences Branch
West Vancouver Laboratory
West Vancouver, British Columbia V7V 1N6

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ABSTRACT

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Data are presented on the abundance, species composition and size distribution of fish species captured during a beach seine sampling program on the Lower Fraser River. Regular sampling was carried out at five sites on the mainstem of the Fraser River, with two additional sampling sites located in Annacis Channel. Sampling was initiated in March 1988 and continued to the end of August 1988. A total of 15 sampling trips comprising 218 individual sets were made. During the study over 6100 individual specimens representing 9 families and 24 species of fish were identified. A summary of the coded wire tag information is given for adipose fin clip marked fish captured during the study.

Key words: Fraser River, beach seining, juvenile salmonids, migration

RÉSUMÉ

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Les données portent sur l'abondance, la composition des espèces de poissons et leur distribution par grandeur dans le cadre d'un programme d'échantillonnage par capture à l'aide d'une senne de rivage dans le cours inférieur du Fraser. Des échantillons ont été prélevés à intervalles réguliers dans cinq sites du lit principal du fleuve, avec deux autres sites d'échantillonnage dans le chenal Annacis. Ce programme a commencé en mars 1988 et s'est poursuivi jusqu'à la fin d'août 1988. Au total, 15 tournées d'échantillonnage comprenant 218 ensembles ont été faites. Au cours de cette étude, plus de 6100 spécimens représentant 9 familles et 24 espèces ont été identifiés. Un résumé de l'information contenue sur les micromarques magnétiques codées est présenté pour les poissons marqués d'une bague à la nageoire adipeuse, capturés au cours de cette étude.

Mots clés: Fleuve Fraser, senne de rivage, salmonidés juvéniles, migration

INTRODUCTION

Northcote's (1974) review of the distribution of fish species present within the Lower Fraser River describes the general pattern of migration timing through the lower river by the major migratory species. Studies by Levy and Northcote (1982) and Levy et al. (1979) have demonstrated the importance of Fraser River estuarine habitat as nursery and staging areas for juvenile salmonids. Brown et al. (1989) recently documented, over a period of one year, the fish community present in the nearshore tidal reaches of the Fraser River at the North and Main arms. Harder and Associates (1985, 1988) completed extensive beach seine surveys of waters adjacent to Annacis Island in the Fraser River. The work cited above briefly outlines the critical nature of defining patterns of temporal habitat utilization within the lower Fraser River by migrant juvenile salmonids. The present study attempts to more clearly define habitat utilization by migrant juvenile salmon passing through the Lower Fraser River.

A beach seine sampling program to assess the species composition, abundance and distribution of the nearshore fish community was initiated on the Lower Fraser River in March, 1988. Sampling was carried out in conjunction with a surface trawling program (Whitehouse and Levings, 1989) under way to assess the distribution and abundance of fish in the surface waters of the mid-channel portions of the mainstem Lower Fraser River. The proximity of two beach seine stations to the Queens Reach trawl study area was designed to differentiate differences in the fish community utilizing the nearshore versus mid-channel waters.

This report presents the catch by species (Table 3), of fish available for capture by beach seine at seven sites on the Fraser River below Port Mann (Figure 1). A description of the variable names and codes employed in the data tables is given in Tables 1 and 2. Data on the length and weight of juvenile salmon captured during the study are presented in Tables 4 and 5. Information regarding the diet of the sampled fish will be presented elsewhere. Similarly, information on the non-salmonid fish community will be forthcoming.

METHODS AND MATERIALS

Sampling for the nearshore abundance of fish species present in the waters of the mainstem Fraser River was carried out using a 30 m beach seine net. The net had 10 m wings of 1.0 cm stretched mesh, and a bunt of 0.6 cm stretched mesh nylon netting. The net was set off the beach using a 5 m inflatable boat equipped with a 60 HP outboard engine. All fish captured in each set were held in separate 20 l buckets of river water until sampling was complete (usually three sets). The results of the beach seine sampling are presented in Table 3.

In the field, upon completion of sampling at one site, fish were enumerated by species, and then released. In some cases, fork length (to the nearest mm) was recorded. The fork lengths of live fish, recorded in the field are presented in Table 5. A subsample of the total catch was usually taken for further analysis in the laboratory. Preservation was achieved using

a 10% formaldehyde solution. Surface temperature (^{o}C) was recorded from each site using a hand held thermometer. Measurement of the current velocity ($m*s^{-1}$) was taken at each site using a Marsh-McBirney Model 201D portable current meter.

In the laboratory, formaldehyde-preserved samples (fixed for a minimum of 14 days, and a maximum of 35 days) were rinsed in tap water for 24 hours. Weights, measured using a K-Tron DS-10 balance, and fork lengths (nearest mm) of preserved fish were recorded and each specimen assigned a uniquely numbered identification tag. Weight and length information of the preserved samples is presented in Table 4. All preserved specimens were then transferred to a storage solution of 40% iso-propanol and tap water. Adipose clipped juvenile salmonids were separated from the general subsample for determination of the hatchery of origin from the coded wire tags. A summary of the coded wire tag (CWT) information from adipose clipped fish is presented in Table 6.

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Figure 1. Location of beach seine study sites on the Fraser River below Port Mann during 1988.

Table 1. Description of the variables and codes presented in catch data.

VARIABLE NAME	VARIABLE DESCRIPTION	CODE
TRIP	Sequential sampling trip number	
DATE	Sampling date (YYMMDD)	
SITE	Sampling site	
	Port Mann	PM
	Pattullo Bridge	PA
	Patrick Bay	PB
	Patrick Island	PI
	Purfleet Point	PP
	Chatterton Chemical	CC
	Richmond Landfill	RL
TEMP	Surface temperature (^{o}C)	
FLOW	River current speed ($m*s^{-1}$)	
TSET	Total sets per site, by date	
SET	Sequential set per site	
TIME	Sampling time (PST)	
SPEC	Species (Defined in Table 2)	
STGE	Life History Stage	
	Adult	AD
	Smolt	SM
	Fry	FR
	Juvenile	JU
ORG	Marked or unmarked fish	
	Hatchery produced fish	H
	Unknown (natural production plus unmarked hatchery fish)	.
TOT	Catch by species, stage, and origin	
	Missing data	.

Table 2. Scientific and common names and species codes of fishes collected from the Lower Fraser River, by beach seine in 1988.

FAMILY and Scientific Name	Common Name	Species Code
PETROMYZONTIDAE		
Lampetra genus	unidentified lamprey	LAMP
SALMONIDAE		
Prosopium williamsoni	rocky mountain whitefish	ROCK
Oncorhynchus clarki clarki	cutthroat trout *	CUTT
O. gorbuscha	pink salmon	PINK
O. keta	chum salmon	CHUM
O. kisutch	coho salmon	COHO
O. mykiss	rainbow trout *	RAIN
O. nerka	sockeye salmon	SOCK
O. tshawytscha	chinook salmon	CHIN
Salvelinus malma	dolly varden char	DOLL
OSMERIDAE		
Spirinchus thaleichthys	longfin smelt	LFSM
CYPRINIDAE		
Mylocheilus caurinus	peamouth chub	PEAM
Ptychocheilus oregonensis	northern squawfish	SQUA
Rhinichthys cataractae	longnose dace	DACE
Richardsonius balteatus	redside shiner	REDS
CATOSTOMIDAE	unidentified sucker	SUCK
Catostomus catostomus	longnose sucker	NOSE
C. columbianus	bridgelip sucker	BRID
C. macrocheilus	largescale sucker	LSSU
GASTEROSTEIDAE		
Gasterosteus aculeatus	threespine stickleback	STIC
COTTIDAE		
Cottus asper	prickly sculpin	SCUL
Leptocottus armatus	pacific staghorn sculpin	STAG
CENTRARCHIDAE		
Pomoxis nigromaculatus	black crappie	CRAP
PLEURONECTIDAE		
Platichthys stellatus	starry flounder	STAR
Unidentified	larval fish	LARV

* Trout nomenclature follows Kendall (1988).

Table 3. Beach seine catch data from the Fraser River during 1988.

Fraser River Beach Seine Catch Data - 1988

TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
1	880317	PB	7.0	.	4	1	1117	CHUM	FR	.	6
1	880317	PB	7.0	.	4	1	1117	STAR	.	.	1
1	880317	PB	7.0	.	4	1	1117	STIC	AD	.	2
1	880317	PB	7.0	.	4	2	1130	CHUM	FR	.	2
1	880317	PB	7.0	.	4	2	1130	STAR	.	.	2
1	880317	PB	7.0	.	4	2	1130	STIC	AD	.	1
1	880317	PB	7.0	.	4	3	1140	CHUM	FR	.	2
1	880317	PB	7.0	.	4	3	1140	PINK	FR	.	7
1	880317	PB	7.0	.	4	3	1140	STIC	AD	.	3
1	880317	PB	7.0	.	4	4	1150	CHUM	FR	.	1
1	880317	PB	7.0	.	4	4	1150	PINK	FR	.	1
1	880317	PB	7.0	.	4	4	1150	SCUL	.	.	1
1	880317	PB	7.0	.	4	4	1150	STAR	.	.	1
1	880317	PI	6.0	.	2	1	1215	CHIN	SM	.	1
1	880317	PI	6.0	.	2	1	1215	CHUM	FR	.	3
1	880317	PI	6.0	.	2	1	1215	LFSM	.	.	2
1	880317	PI	6.0	.	2	1	1215	PINK	FR	.	3
1	880317	PI	6.0	.	2	1	1215	SCUL	.	.	3
1	880317	PI	6.0	.	2	1	1215	STAR	.	.	13
1	880317	PI	6.0	.	2	1	1215	STIC	AD	.	3
1	880317	PI	6.0	.	2	2	1230	CHIN	FR	.	1
1	880317	PI	6.0	.	2	2	1230	CHUM	FR	.	3
1	880317	PI	6.0	.	2	2	1230	SCUL	.	.	3
1	880317	PI	6.0	.	2	2	1230	STAR	.	.	4
1	880317	PI	6.0	.	2	2	1230	STIC	AD	.	1
1	880317	RL	6.0	.	3	1	1244	SCUL	.	.	1
1	880317	RL	6.0	.	3	1	1244	STAR	.	.	4
1	880317	RL	6.0	.	3	1	1244	STIC	AD	.	1
1	880317	RL	6.0	.	3	2	1253	STAR	.	.	6
1	880317	RL	6.0	.	3	3	1259	CHUM	FR	.	6
1	880317	RL	6.0	.	3	3	1259	LFSM	.	.	13
1	880317	RL	6.0	.	3	3	1259	STAR	.	.	6
1	880317	RL	6.0	.	3	3	1259	STIC	AD	.	3
2	880526	PA	14.5	.	3	1	1306	CHIN	SM	.	1
2	880526	PA	14.5	.	3	1	1306	CHIN	SM	H	1
2	880526	PA	14.5	.	3	1	1306	COHO	SM	.	5
2	880526	PA	14.5	.	3	1	1306	CUTT	.	.	1
2	880526	PA	14.5	.	3	1	1306	LAMP	.	.	1
2	880526	PA	14.5	.	3	1	1306	PEAM	.	.	6
2	880526	PA	14.5	.	3	1	1306	SCUL	.	.	1
2	880526	PA	14.5	.	3	1	1306	STAR	.	.	1
2	880526	PA	14.5	.	3	1	1306	STIC	AD	.	2
2	880526	PA	14.5	.	3	2	1317	PEAM	.	.	2
2	880526	PA	14.5	.	3	2	1317	SCUL	.	.	3
2	880526	PA	14.5	.	3	2	1317	STAR	.	.	10
2	880526	PA	14.5	.	3	3	1334	CHIN	FR	.	1
2	880526	PA	14.5	.	3	3	1334	LAMP	.	.	3
2	880526	PA	14.5	.	3	3	1334	PEAM	.	.	4
2	880526	PA	14.5	.	3	3	1334	SCUL	.	.	7
2	880526	PA	14.5	.	3	3	1334	SOCK	FR	.	1

Fraser River Beach Seine Catch Data - 1988

TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
2	880526	PA	14.5	.	3	3	1334	STAR	.	.	1
2	880526	PA	14.5	.	3	3	1334	STIC	AD	.	1
2	880526	PB	12.0	0.07	3	1	1027	CHIN	FR	.	8
2	880526	PB	12.0	0.07	3	1	1027	CHIN	SM	.	17
2	880526	PB	12.0	0.07	3	1	1027	CHIN	SM	H	3
2	880526	PB	12.0	0.07	3	1	1027	COHO	SM	.	11
2	880526	PB	12.0	0.07	3	1	1027	PEAM	.	.	11
2	880526	PB	12.0	0.07	3	1	1027	REDS	.	.	2
2	880526	PB	12.0	0.07	3	1	1027	SOCK	SM	.	3
2	880526	PB	12.0	0.07	3	1	1027	STAR	.	.	2
2	880526	PB	12.0	0.07	3	1	1027	STIC	AD	.	2
2	880526	PB	12.0	0.07	3	2	1032	CHIN	FR	.	1
2	880526	PB	12.0	0.07	3	2	1032	CHIN	SM	.	3
2	880526	PB	12.0	0.07	3	2	1032	COHO	SM	.	3
2	880526	PB	12.0	0.07	3	2	1032	STIC	AD	.	1
2	880526	PB	12.0	0.07	3	3	1040	CHIN	FR	.	2
2	880526	PB	12.0	0.07	3	3	1040	COHO	SM	.	1
2	880526	PB	12.0	0.07	3	3	1040	STAR	.	.	2
2	880526	PP	12.0	0.03	3	1	951	CHIN	FR	.	5
2	880526	PP	12.0	0.03	3	1	951	CHIN	SM	.	6
2	880526	PP	12.0	0.03	3	1	951	COHO	SM	.	6
2	880526	PP	12.0	0.03	3	1	951	PEAM	.	.	5
2	880526	PP	12.0	0.03	3	1	951	SCUL	.	.	7
2	880526	PP	12.0	0.03	3	1	951	STAR	.	.	1
2	880526	PP	12.0	0.03	3	2	955	CHIN	SM	.	4
2	880526	PP	12.0	0.03	3	2	955	PEAM	.	.	2
2	880526	PP	12.0	0.03	3	2	955	SCUL	.	.	7
2	880526	PP	12.0	0.03	3	2	955	STAR	.	.	5
2	880526	PP	12.0	0.03	3	3	1006	CHUM	FR	.	1
2	880526	PP	12.0	0.03	3	3	1006	PEAM	.	.	2
2	880526	PP	12.0	0.03	3	3	1006	SCUL	.	.	4
2	880526	PP	12.0	0.03	3	3	1006	STAR	.	.	1
2	880526	RL	11.0	0.10	3	1	912	CHIN	FR	.	1
2	880526	RL	11.0	0.10	3	1	912	CHIN	SM	.	4
2	880526	RL	11.0	0.10	3	1	912	COHO	SM	.	3
2	880526	RL	11.0	0.10	3	1	912	PEAM	.	.	4
2	880526	RL	11.0	0.10	3	1	912	STAR	.	.	9
2	880526	RL	11.0	0.10	3	2	917	CHIN	SM	.	2
2	880526	RL	11.0	0.10	3	2	917	PEAM	.	.	1
2	880526	RL	11.0	0.10	3	2	917	SCUL	.	.	3
2	880526	RL	11.0	0.10	3	2	917	STAR	.	.	7
2	880526	RL	11.0	0.10	3	3	921	CHIN	FR	.	1
2	880526	RL	11.0	0.10	3	3	921	CHIN	SM	.	1
2	880526	RL	11.0	0.10	3	3	921	COHO	SM	.	2
2	880526	RL	11.0	0.10	3	3	921	SCUL	.	.	1
2	880526	RL	11.0	0.10	3	3	921	SOCK	SM	.	1
2	880526	RL	11.0	0.10	3	3	921	STIC	AD	.	3
3	880527	PA	12.0	0.19	3	1	1140	CHIN	FR	.	1
3	880527	PA	12.0	0.19	3	1	1140	CHIN	SM	.	8
3	880527	PA	12.0	0.19	3	1	1140	CHIN	SM	H	1

Fraser River Beach Seine Catch Data - 1988

TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
3	880527	PA	12	0.19	3	1	1140	COHO	SM	.	2
3	880527	PA	12	0.19	3	1	1140	DOLL	AD	.	1
3	880527	PA	12	0.19	3	1	1140	LSSU	AD	.	2
3	880527	PA	12	0.19	3	1	1140	SCUL	.	.	34
3	880527	PA	12	0.19	3	1	1140	STAR	.	.	58
3	880527	PA	12	0.19	3	2	1153	CHIN	SM	.	1
3	880527	PA	12	0.19	3	2	1153	LAMP	.	.	1
3	880527	PA	12	0.19	3	2	1153	PINK	FR	.	2
3	880527	PA	12	0.19	3	2	1153	SCUL	.	.	23
3	880527	PA	12	0.19	3	2	1153	STAR	.	.	26
3	880527	PA	12	0.19	3	3	1200	CHIN	SM	.	1
3	880527	PA	12	0.19	3	3	1200	SCUL	.	.	15
3	880527	PA	12	0.19	3	3	1200	STAR	.	.	27
3	880527	PA	12	0.19	3	3	1200	STIC	AD	.	1
3	880527	PB	12	0.01	3	1	1240	CHIN	FR	.	4
3	880527	PB	12	0.01	3	1	1240	CHIN	SM	.	40
3	880527	PB	12	0.01	3	1	1240	CHIN	SM	H	1
3	880527	PB	12	0.01	3	1	1240	COHO	SM	.	5
3	880527	PB	12	0.01	3	1	1240	PEAM	.	.	6
3	880527	PB	12	0.01	3	1	1240	SCUL	.	.	2
3	880527	PB	12	0.01	3	1	1240	SQUA	.	.	4
3	880527	PB	12	0.01	3	1	1240	STIC	AD	.	3
3	880527	PB	12	0.01	3	2	1245	CHIN	SM	.	4
3	880527	PB	12	0.01	3	2	1245	PEAM	.	.	5
3	880527	PB	12	0.01	3	2	1245	REDS	.	.	1
3	880527	PB	12	0.01	3	2	1245	SOCK	SM	.	1
3	880527	PB	12	0.01	3	2	1245	SQUA	.	.	2
3	880527	PB	12	0.01	3	3	1300	CHIN	SM	.	4
3	880527	PB	12	0.01	3	3	1300	COHO	SM	.	1
3	880527	PB	12	0.01	3	3	1300	PEAM	.	.	2
3	880527	PB	12	0.01	3	3	1300	SCUL	.	.	3
3	880527	PM	11	0.30	3	1	1033	CHIN	FR	.	2
3	880527	PM	11	0.30	3	1	1033	CHIN	SM	.	119
3	880527	PM	11	0.30	3	1	1033	COHO	SM	.	8
3	880527	PM	11	0.30	3	1	1033	COHO	SM	H	1
3	880527	PM	11	0.30	3	1	1033	PEAM	.	.	16
3	880527	PM	11	0.30	3	1	1033	RAIN	SM	.	1
3	880527	PM	11	0.30	3	1	1033	SCUL	.	.	25
3	880527	PM	11	0.30	3	1	1033	STAR	.	.	8
3	880527	PM	11	0.30	3	1	1033	STIC	AD	.	3
3	880527	PM	11	0.30	3	2	1037	CHIN	SM	.	31
3	880527	PM	11	0.30	3	2	1037	COHO	SM	.	2
3	880527	PM	11	0.30	3	2	1037	SCUL	.	.	19
3	880527	PM	11	0.30	3	2	1037	STAR	.	.	5
3	880527	PM	11	0.30	3	3	1044	CHIN	SM	.	5
3	880527	PM	11	0.30	3	3	1044	SCUL	.	.	6
3	880527	PM	11	0.30	3	3	1044	SOCK	SM	.	1
3	880527	PP	12	1.50	3	1	1340	CHIN	FR	.	3
3	880527	PP	12	1.50	3	1	1340	CHIN	SM	.	11
3	880527	PP	12	1.50	3	1	1340	RAIN	SM	.	2

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TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
3	880527	PP	12.0	1.50	3	1	1340	SCUL	.	.	1
3	880527	PP	12.0	1.50	3	1	1340	STAR	.	.	1
3	880527	PP	12.0	1.50	3	2	1345	.	.	.	0
3	880527	PP	12.0	1.50	3	3	1352	CHIN	SM	.	7
3	880527	PP	12.0	1.50	3	3	1352	REDS	.	.	5
3	880527	RL	11.5	0.02	3	1	1445	CHIN	FR	.	2
3	880527	RL	11.5	0.02	3	1	1445	CHIN	SM	.	12
3	880527	RL	11.5	0.02	3	1	1445	CHIN	SM	H	1
3	880527	RL	11.5	0.02	3	1	1445	CHUM	FR	.	1
3	880527	RL	11.5	0.02	3	1	1445	COHO	SM	.	4
3	880527	RL	11.5	0.02	3	1	1445	PEAM	.	.	1
3	880527	RL	11.5	0.02	3	1	1445	SCUL	.	.	9
3	880527	RL	11.5	0.02	3	1	1445	SOCK	SM	.	1
3	880527	RL	11.5	0.02	3	1	1445	STAR	.	.	4
3	880527	RL	11.5	0.02	3	2	1451	CHIN	FR	.	3
3	880527	RL	11.5	0.02	3	2	1451	CHIN	SM	.	4
3	880527	RL	11.5	0.02	3	2	1451	DOLL	AD	.	1
3	880527	RL	11.5	0.02	3	2	1451	PEAM	.	.	2
3	880527	RL	11.5	0.02	3	2	1451	RAIN	SM	.	1
3	880527	RL	11.5	0.02	3	2	1451	SCUL	.	.	5
3	880527	RL	11.5	0.02	3	2	1451	SOCK	SM	.	1
3	880527	RL	11.5	0.02	3	2	1451	STAR	.	.	1
3	880527	RL	11.5	0.02	3	3	1500	CHIN	SM	.	5
4	880531	PA	11.5	0.16	3	1	945	CHIN	FR	.	2
4	880531	PA	11.5	0.16	3	1	945	CHIN	SM	.	2
4	880531	PA	11.5	0.16	3	1	945	CHIN	SM	H	1
4	880531	PA	11.5	0.16	3	1	945	LARV	.	.	1
4	880531	PA	11.5	0.16	3	1	945	LFSM	.	.	2
4	880531	PA	11.5	0.16	3	1	945	SCUL	.	.	27
4	880531	PA	11.5	0.16	3	1	945	STAR	.	.	25
4	880531	PA	11.5	0.16	3	2	952	CHIN	FR	.	1
4	880531	PA	11.5	0.16	3	2	952	REDS	.	.	1
4	880531	PA	11.5	0.16	3	2	952	SCUL	.	.	8
4	880531	PA	11.5	0.16	3	2	952	STAR	.	.	16
4	880531	PA	11.5	0.16	3	3	1000	PINK	FR	.	1
4	880531	PA	11.5	0.16	3	3	1000	SCUL	.	.	9
4	880531	PA	11.5	0.16	3	3	1000	STAR	.	.	3
4	880531	PB	11.0	0.01	3	1	855	CHIN	FR	.	3
4	880531	PB	11.0	0.01	3	1	855	CHIN	SM	.	8
4	880531	PB	11.0	0.01	3	1	855	CHIN	SM	H	1
4	880531	PB	11.0	0.01	3	1	855	COHO	SM	.	1
4	880531	PB	11.0	0.01	3	1	855	PEAM	.	.	1
4	880531	PB	11.0	0.01	3	1	855	SQUA	.	.	2
4	880531	PB	11.0	0.01	3	2	900	CHIN	SM	.	5
4	880531	PB	11.0	0.01	3	2	900	COHO	SM	.	2
4	880531	PB	11.0	0.01	3	2	900	PEAM	.	.	1
4	880531	PB	11.0	0.01	3	2	900	SOCK	FR	.	1
4	880531	PB	11.0	0.01	3	2	900	SQUA	.	.	1
4	880531	PB	11.0	0.01	3	3	905	CHIN	FR	.	3
4	880531	PB	11.0	0.01	3	3	905	CHIN	SM	.	2

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4	880531	PB	11.0	0.01	3	3	905	STAR	.	.	1
4	880531	PM	11.5	0.30	3	1	1030	CHIN	SM	.	42
4	880531	PM	11.5	0.30	3	1	1030	CHIN	SM	H	24
4	880531	PM	11.5	0.30	3	1	1030	CUTT	SM	.	1
4	880531	PM	11.5	0.30	3	1	1030	CUTT	SM	H	2
4	880531	PM	11.5	0.30	3	1	1030	DACE	.	.	1
4	880531	PM	11.5	0.30	3	1	1030	PEAM	.	.	35
4	880531	PM	11.5	0.30	3	1	1030	RAIN	SM	.	1
4	880531	PM	11.5	0.30	3	1	1030	REDS	.	.	1
4	880531	PM	11.5	0.30	3	1	1030	SCUL	.	.	18
4	880531	PM	11.5	0.30	3	1	1030	SQUA	.	.	1
4	880531	PM	11.5	0.30	3	1	1030	STAR	.	.	3
4	880531	PM	11.5	0.30	3	2	1038	CHIN	FR	.	6
4	880531	PM	11.5	0.30	3	2	1038	CHIN	SM	.	29
4	880531	PM	11.5	0.30	3	2	1038	COHO	SM	.	3
4	880531	PM	11.5	0.30	3	2	1038	PEAM	.	.	1
4	880531	PM	11.5	0.30	3	2	1038	RAIN	FR	.	1
4	880531	PM	11.5	0.30	3	2	1038	SCUL	.	.	11
4	880531	PM	11.5	0.30	3	2	1038	SOCK	FR	.	1
4	880531	PM	11.5	0.30	3	2	1038	STAR	.	.	14
4	880531	PM	11.5	0.30	3	3	1045	CHIN	SM	.	11
4	880531	PM	11.5	0.30	3	3	1045	CHIN	SM	H	1
4	880531	PM	11.5	0.30	3	3	1045	COHO	SM	.	1
4	880531	PM	11.5	0.30	3	3	1045	SCUL	.	.	5
4	880531	PM	11.5	0.30	3	3	1045	STAR	.	.	3
4	880531	PM	11.5	0.30	3	3	1045	STIC	.	.	7
4	880531	PP	11.0	.	3	1	815	CHIN	SM	.	1
4	880531	PP	11.0	.	3	1	815	COHO	SM	.	1
4	880531	PP	11.0	.	3	1	815	PEAM	.	.	1
4	880531	PP	11.0	.	3	1	815	SCUL	.	.	2
4	880531	PP	11.0	.	3	1	815	STAR	.	.	1
4	880531	PP	11.0	.	3	2	820	CHIN	FR	.	1
4	880531	PP	11.0	.	3	2	820	REDS	.	.	1
4	880531	PP	11.0	.	3	2	820	SCUL	.	.	14
4	880531	PP	11.0	.	3	2	820	STAR	.	.	1
4	880531	PP	11.0	.	3	3	825	PEAM	.	.	1
4	880531	PP	11.0	.	3	3	825	SCUL	.	.	7
4	880531	PP	11.0	.	3	3	825	STAR	.	.	1
4	880531	RL	11.0	0.12	3	1	740	CHIN	SM	.	7
4	880531	RL	11.0	0.12	3	1	740	COHO	SM	.	1
4	880531	RL	11.0	0.12	3	1	740	SCUL	.	.	1
4	880531	RL	11.0	0.12	3	1	740	STAR	.	.	1
4	880531	RL	11.0	0.12	3	2	745	PEAM	.	.	1
4	880531	RL	11.0	0.12	3	2	745	SCUL	.	.	1
4	880531	RL	11.0	0.12	3	3	750	CHIN	SM	.	2
4	880531	RL	11.0	0.12	3	3	750	COHO	SM	.	2
4	880531	RL	11.0	0.12	3	3	750	SQUA	.	.	2
4	880531	RL	11.0	0.12	3	3	750	STAR	.	.	1
5	880602	PA	11.0	0.10	3	1	1550	CHIN	FR	.	2
5	880602	PA	11.0	0.10	3	1	1550	CHIN	SM	.	3

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5	880602	PA	11	0.10	3	1	1550	LAMP	.	.	1
5	880602	PA	11	0.10	3	1	1550	SCUL	.	.	2
5	880602	PA	11	0.10	3	1	1550	SQUA	.	.	1
5	880602	PA	11	0.10	3	1	1550	SQUA	AD	.	1
5	880602	PA	11	0.10	3	1	1550	STAR	.	.	16
5	880602	PA	11	0.10	3	2	1555	CHIN	FR	.	2
5	880602	PA	11	0.10	3	2	1555	SCUL	.	.	18
5	880602	PA	11	0.10	3	2	1555	STAR	.	.	19
5	880602	PA	11	0.10	3	3	1600	CHIN	SM	.	1
5	880602	PA	11	0.10	3	3	1600	SCUL	.	.	6
5	880602	PA	11	0.10	3	3	1600	STAR	.	.	3
5	880602	PB	11	0.03	3	1	1450	CHIN	FR	.	3
5	880602	PB	11	0.03	3	1	1450	CHIN	SM	.	2
5	880602	PB	11	0.03	3	1	1450	COHO	SM	.	4
5	880602	PB	11	0.03	3	1	1450	LARV	.	.	1
5	880602	PB	11	0.03	3	1	1450	PEAM	.	.	9
5	880602	PB	11	0.03	3	1	1450	REDS	.	.	1
5	880602	PB	11	0.03	3	1	1450	SCUL	.	.	3
5	880602	PB	11	0.03	3	1	1450	SQUA	.	.	15
5	880602	PB	11	0.03	3	1	1450	STAR	.	.	1
5	880602	PB	11	0.03	3	2	1455	CHIN	FR	.	7
5	880602	PB	11	0.03	3	2	1455	CHIN	SM	.	3
5	880602	PB	11	0.03	3	2	1455	COHO	FR	.	1
5	880602	PB	11	0.03	3	2	1455	PEAM	.	.	1
5	880602	PB	11	0.03	3	2	1455	REDS	.	.	1
5	880602	PB	11	0.03	3	2	1455	SCUL	.	.	2
5	880602	PB	11	0.03	3	2	1455	STAR	.	.	2
5	880602	PB	11	0.03	3	3	1500	CHIN	FR	.	1
5	880602	PB	11	0.03	3	3	1500	CHIN	SM	H	1
5	880602	PB	11	0.03	3	3	1500	SCUL	.	.	1
5	880602	PB	11	0.03	3	3	1500	STAR	.	.	1
5	880602	PM	10	0.07	3	1	1640	CHIN	FR	.	6
5	880602	PM	10	0.07	3	1	1640	CHIN	SM	.	20
5	880602	PM	10	0.07	3	1	1640	COHO	SM	.	2
5	880602	PM	10	0.07	3	1	1645	CUTT	SM	H	1
5	880602	PM	10	0.07	3	1	1640	LAMP	.	.	1
5	880602	PM	10	0.07	3	1	1640	PEAM	.	.	1
5	880602	PM	10	0.07	3	1	1640	PINK	FR	.	1
5	880602	PM	10	0.07	3	1	1640	RAIN	SM	H	1
5	880602	PM	10	0.07	3	1	1640	ROCK	AD	.	1
5	880602	PM	10	0.07	3	1	1640	SCUL	.	.	6
5	880602	PM	10	0.07	3	1	1640	STAR	.	.	1
5	880602	PM	10	0.07	3	1	1640	STIC	.	.	2
5	880602	PM	10	0.07	3	1	1640	SUCK	AD	.	1
5	880602	PM	10	0.07	3	2	1645	CHIN	FR	.	5
5	880602	PM	10	0.07	3	2	1645	CHIN	SM	.	2
5	880602	PM	10	0.07	3	2	1650	RAIN	SM	H	1
5	880602	PM	10	0.07	3	2	1645	SCUL	.	.	30
5	880602	PM	10	0.07	3	3	1650	CHIN	SM	.	9
5	880602	PM	10	0.07	3	3	1650	CHIN	SM	H	2

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5	880602	PM	10	0.07	3	3	1650	LAMP	.	.	1
5	880602	PM	10	0.07	3	3	1650	SCUL	.	.	9
5	880602	PM	10	0.07	3	3	1650	SOCK	FR	.	1
5	880602	PP	11	0.07	3	1	1410	BRID	AD	.	1
5	880602	PP	11	0.07	3	1	1410	CHIN	FR	.	5
5	880602	PP	11	0.07	3	1	1410	CHIN	SM	.	3
5	880602	PP	11	0.07	3	1	1410	CHIN	SM	H	1
5	880602	PP	11	0.07	3	1	1410	COHO	SM	.	1
5	880602	PP	11	0.07	3	1	1410	LSSU	AD	.	1
5	880602	PP	11	0.07	3	1	1410	PEAM	.	.	6
5	880602	PP	11	0.07	3	1	1410	SCUL	.	.	20
5	880602	PP	11	0.07	3	1	1410	SQUA	.	.	3
5	880602	PP	11	0.07	3	1	1410	STAR	.	.	33
5	880602	PP	11	0.07	3	1	1410	STIC	.	.	1
5	880602	PP	11	0.07	3	2	1415	CHIN	FR	.	2
5	880602	PP	11	0.07	3	2	1415	CHIN	SM	.	2
5	880602	PP	11	0.07	3	2	1415	PEAM	.	.	4
5	880602	PP	11	0.07	3	2	1415	SCUL	.	.	11
5	880602	PP	11	0.07	3	2	1415	SQUA	.	.	1
5	880602	PP	11	0.07	3	2	1415	STAR	.	.	12
5	880602	PP	11	0.07	3	3	1420	BRID	AD	.	1
5	880602	PP	11	0.07	3	3	1420	CHIN	FR	.	1
5	880602	PP	11	0.07	3	3	1420	CHIN	SM	.	1
5	880602	PP	11	0.07	3	3	1420	PEAM	.	.	1
5	880602	PP	11	0.07	3	3	1420	ROCK	AD	.	1
5	880602	PP	11	0.07	3	3	1420	SCUL	.	.	16
5	880602	PP	11	0.07	3	3	1420	STAR	.	.	13
5	880602	RL	11	0.05	3	1	1245	CHIN	FR	.	7
5	880602	RL	11	0.05	3	1	1245	CHIN	SM	.	7
5	880602	RL	11	0.05	3	1	1245	CHIN	SM	H	1
5	880602	RL	11	0.05	3	1	1245	LAMP	.	.	1
5	880602	RL	11	0.05	3	1	1245	LSSU	AD	.	1
5	880602	RL	11	0.05	3	1	1245	PEAM	.	.	7
5	880602	RL	11	0.05	3	1	1245	SCUL	.	.	12
5	880602	RL	11	0.05	3	1	1245	SQUA	.	.	2
5	880602	RL	11	0.05	3	1	1245	STAR	.	.	11
5	880602	RL	11	0.05	3	1	1245	STIC	.	.	2
5	880602	RL	11	0.05	3	2	1250	CHIN	FR	.	3
5	880602	RL	11	0.05	3	2	1250	CHIN	SM	.	5
5	880602	RL	11	0.05	3	2	1250	COHO	SM	H	1
5	880602	RL	11	0.05	3	2	1250	SCUL	.	.	1
5	880602	RL	11	0.05	3	2	1250	STAR	.	.	1
5	880602	RL	11	0.05	3	3	1255	CHIN	FR	.	1
5	880602	RL	11	0.05	3	3	1255	CHIN	SM	.	1
5	880602	RL	11	0.05	3	3	1255	CHIN	SM	H	1
5	880602	RL	11	0.05	3	3	1255	SCUL	.	.	8
5	880602	RL	11	0.05	3	3	1255	STAR	.	.	1
6	880607	PA	13	0.20	3	1	1512	CHIN	FR	.	3
6	880607	PA	13	0.20	3	1	1512	CHIN	SM	.	3
6	880607	PA	13	0.20	3	1	1512	CHIN	SM	H	3

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6	880607	PA	13	0.20	3	1	1512	DOLL	AD	.	1
6	880607	PA	13	0.20	3	1	1512	LARV	.	.	1
6	880607	PA	13	0.20	3	1	1512	LSSU	AD	.	2
6	880607	PA	13	0.20	3	1	1512	PEAM	.	.	7
6	880607	PA	13	0.20	3	1	1512	REDS	.	.	1
6	880607	PA	13	0.20	3	1	1512	SCUL	.	.	1
6	880607	PA	13	0.20	3	1	1512	SQUA	.	.	1
6	880607	PA	13	0.20	3	1	1512	SQUA	AD	.	1
6	880607	PA	13	0.20	3	1	1512	STAR	.	.	10
6	880607	PA	13	0.20	3	2	1516	CHIN	FR	.	1
6	880607	PA	13	0.20	3	2	1516	CHIN	SM	.	1
6	880607	PA	13	0.20	3	2	1516	LARV	.	.	2
6	880607	PA	13	0.20	3	2	1516	LSSU	AD	.	1
6	880607	PA	13	0.20	3	2	1516	PEAM	.	.	6
6	880607	PA	13	0.20	3	2	1516	SCUL	.	.	1
6	880607	PA	13	0.20	3	2	1516	STAR	.	.	7
6	880607	PA	13	0.20	3	3	1521	CHIN	SM	.	1
6	880607	PA	13	0.20	3	3	1521	LARV	.	.	1
6	880607	PA	13	0.20	3	3	1521	PEAM	.	.	4
6	880607	PA	13	0.20	3	3	1521	PINK	FR	.	1
6	880607	PA	13	0.20	3	3	1521	SCUL	.	.	1
6	880607	PB	13	0.02	3	1	1420	CHIN	FR	.	5
6	880607	PB	13	0.02	3	1	1420	CHIN	SM	.	2
6	880607	PB	13	0.02	3	1	1420	REDS	.	.	2
6	880607	PB	13	0.02	3	1	1420	SCUL	.	.	1
6	880607	PB	13	0.02	3	1	1420	STAR	.	.	1
6	880607	PB	13	0.02	3	2	1425	CHIN	FR	.	3
6	880607	PB	13	0.02	3	2	1425	CHIN	SM	.	2
6	880607	PB	13	0.02	3	2	1425	PEAM	.	.	2
6	880607	PB	13	0.02	3	2	1425	REDS	.	.	2
6	880607	PB	13	0.02	3	2	1425	STAR	.	.	1
6	880607	PB	13	0.02	3	3	1430	CHIN	FR	.	1
6	880607	PB	13	0.02	3	3	1430	CHIN	SM	.	1
6	880607	PB	13	0.02	3	3	1430	PEAM	.	.	1
6	880607	PB	13	0.02	3	3	1430	PINK	FR	.	1
6	880607	PM	12	0.18	3	1	1610	CHIN	SM	.	75
6	880607	PM	12	0.18	3	1	1610	CHIN	SM	H	10
6	880607	PM	12	0.18	3	1	1610	CHUM	FR	.	1
6	880607	PM	12	0.18	3	1	1610	COHO	SM	.	21
6	880607	PM	12	0.18	3	1	1610	COHO	SM	H	1
6	880607	PM	12	0.18	3	1	1610	LSSU	AD	.	1
6	880607	PM	12	0.18	3	1	1610	PEAM	.	.	38
6	880607	PM	12	0.18	3	1	1610	REDS	.	.	1
6	880607	PM	12	0.18	3	1	1610	SCUL	.	.	45
6	880607	PM	12	0.18	3	1	1610	STAR	.	.	9
6	880607	PM	12	0.18	3	1	1610	STIC	.	.	1
6	880607	PM	12	0.18	3	2	1615	CHIN	FR	.	2
6	880607	PM	12	0.18	3	2	1615	CHIN	SM	.	23
6	880607	PM	12	0.18	3	2	1615	CHIN	SM	H	7
6	880607	PM	12	0.18	3	2	1615	COHO	SM	.	6

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TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
6	880607	PM	12	0.18	3	2	1615	COHO	SM	H	3
6	880607	PM	12	0.18	3	2	1615	LARV	.	.	1
6	880607	PM	12	0.18	3	2	1615	RAIN	SM	H	1
6	880607	PM	12	0.18	3	2	1615	SCUL	.	.	15
6	880607	PM	12	0.18	3	2	1615	STAR	.	.	1
6	880607	PM	12	0.18	3	2	1615	STIC	.	.	2
6	880607	PM	12	0.18	3	3	1620	CHIN	SM	.	13
6	880607	PM	12	0.18	3	3	1620	CHIN	SM	H	1
6	880607	PM	12	0.18	3	3	1620	COHO	SM	.	3
6	880607	PM	12	0.18	3	3	1620	PEAM	.	.	1
6	880607	PM	12	0.18	3	3	1620	RAIN	SM	.	1
6	880607	PM	12	0.18	3	3	1620	RAIN	SM	H	1
6	880607	PM	12	0.18	3	3	1620	SCUL	.	.	25
6	880607	PM	12	0.18	3	3	1620	STAR	.	.	6
6	880607	PP	13	0.00	3	1	1340	CHIN	SM	.	3
6	880607	PP	13	0.00	3	1	1340	CHUM	FR	.	1
6	880607	PP	13	0.00	3	1	1340	DOLL	.	.	1
6	880607	PP	13	0.00	3	1	1340	PEAM	.	.	1
6	880607	PP	13	0.00	3	1	1340	REDS	.	.	1
6	880607	PP	13	0.00	3	1	1340	SCUL	.	.	4
6	880607	PP	13	0.00	3	1	1340	SOCK	SM	.	1
6	880607	PP	13	0.00	3	1	1340	STAR	.	.	7
6	880607	PP	13	0.00	3	2	1344	CHIN	FR	.	2
6	880607	PP	13	0.00	3	2	1344	CHIN	SM	.	2
6	880607	PP	13	0.00	3	2	1344	CHUM	FR	.	1
6	880607	PP	13	0.00	3	2	1344	PEAM	.	.	2
6	880607	PP	13	0.00	3	2	1344	REDS	.	.	1
6	880607	PP	13	0.00	3	2	1344	SCUL	.	.	1
6	880607	PP	13	0.00	3	2	1344	SOCK	SM	.	1
6	880607	PP	13	0.00	3	2	1344	STIC	.	.	1
6	880607	PP	13	0.00	3	3	1348	CHIN	SM	.	1
6	880607	PP	13	0.00	3	3	1348	COHO	SM	.	1
6	880607	PP	13	0.00	3	3	1348	SCUL	.	.	1
6	880607	RL	12	0.12	3	1	1304	CHIN	SM	.	1
6	880607	RL	12	0.12	3	1	1304	CHUM	FR	.	1
6	880607	RL	12	0.12	3	1	1304	STAR	.	.	1
6	880607	RL	12	0.12	3	2	1308	CHIN	FR	.	3
6	880607	RL	12	0.12	3	2	1308	CHIN	SM	.	1
6	880607	RL	12	0.12	3	2	1308	COHO	SM	.	1
6	880607	RL	12	0.12	3	2	1308	PEAM	.	.	1
6	880607	RL	12	0.12	3	2	1308	SCUL	.	.	2
6	880607	RL	12	0.12	3	2	1308	STAR	.	.	2
6	880607	RL	12	0.12	3	3	1312	CHIN	FR	.	1
6	880607	RL	12	0.12	3	3	1312	PEAM	.	.	1
6	880607	RL	12	0.12	3	3	1312	SCUL	.	.	1
7	880609	CH	14	0.08	3	1	1115	CHIN	SM	.	2
7	880609	CH	14	0.08	3	1	1115	PEAM	.	.	2
7	880609	CH	14	0.08	3	1	1115	REDS	.	.	1
7	880609	CH	14	0.08	3	1	1115	SCUL	.	.	2
7	880609	CH	14	0.08	3	1	1115	SOCK	FR	.	1

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7	880609	CH	14	0.08	3	1	1115	STAR	.	.	2
7	880609	CH	14	0.08	3	1	1115	SUCK	.	.	1
7	880609	CH	14	0.08	3	2	1120	CHIN	FR	.	2
7	880609	CH	14	0.08	3	2	1120	CHIN	SM	.	4
7	880609	CH	14	0.08	3	2	1120	PEAM	.	.	3
7	880609	CH	14	0.08	3	2	1120	REDS	.	.	1
7	880609	CH	14	0.08	3	2	1120	SCUL	.	.	4
7	880609	CH	14	0.08	3	2	1120	STAR	.	.	1
7	880609	CH	14	0.08	3	2	1120	SUCK	.	.	1
7	880609	CH	14	0.08	3	3	1130	CHIN	FR	.	2
7	880609	CH	14	0.08	3	3	1130	CHIN	SM	.	1
7	880609	CH	14	0.08	3	3	1130	PEAM	.	.	1
7	880609	CH	14	0.08	3	3	1130	SCUL	.	.	2
7	880609	CH	14	0.08	3	3	1130	STAR	.	.	1
7	880609	CH	14	0.08	3	3	1130	SUCK	.	.	1
7	880609	PA	13	0.15	3	1	900	CHIN	FR	.	2
7	880609	PA	13	0.15	3	1	900	CHIN	SM	.	3
7	880609	PA	13	0.15	3	1	900	CHUM	FR	.	1
7	880609	PA	13	0.15	3	1	900	PEAM	.	.	1
7	880609	PA	13	0.15	3	1	900	SCUL	.	.	4
7	880609	PA	13	0.15	3	1	900	STAR	.	.	17
7	880609	PA	13	0.15	3	1	900	STIC	.	.	2
7	880609	PA	13	0.15	3	1	900	SUCK	.	.	10
7	880609	PA	13	0.15	3	2	910	SCUL	.	.	1
7	880609	PA	13	0.15	3	2	910	STAR	.	.	3
7	880609	PA	13	0.15	3	2	910	SUCK	.	.	1
7	880609	PA	13	0.15	3	3	920	PEAM	.	.	1
7	880609	PA	13	0.15	3	3	920	SCUL	.	.	5
7	880609	PA	13	0.15	3	3	920	STAR	.	.	12
7	880609	PA	13	0.15	3	3	920	STIC	.	.	1
7	880609	PB	13	0.05	3	1	1015	CHIN	FR	.	1
7	880609	PB	13	0.05	3	1	1015	PEAM	.	.	1
7	880609	PB	13	0.05	3	1	1015	REDS	.	.	2
7	880609	PB	13	0.05	3	1	1015	SCUL	.	.	2
7	880609	PB	13	0.05	3	1	1015	STAR	.	.	1
7	880609	PB	13	0.05	3	2	1020	CHIN	FR	.	7
7	880609	PB	13	0.05	3	2	1020	CHUM	FR	.	1
7	880609	PB	13	0.05	3	2	1020	PINK	FR	.	1
7	880609	PB	13	0.05	3	3	1025	CHIN	FR	.	2
7	880609	PM	13	0.23	3	1	755	CHIN	FR	.	17
7	880609	PM	13	0.23	3	1	755	CHIN	SM	.	44
7	880609	PM	13	0.23	3	1	755	CHIN	SM	H	6
7	880609	PM	13	0.23	3	1	755	COHO	.	.	3
7	880609	PM	13	0.23	3	1	755	PEAM	.	.	20
7	880609	PM	13	0.23	3	1	755	SCUL	.	.	11
7	880609	PM	13	0.23	3	1	755	SQUA	.	.	2
7	880609	PM	13	0.23	3	1	755	STAR	.	.	3
7	880609	PM	13	0.23	3	2	805	CHIN	FR	.	4
7	880609	PM	13	0.23	3	2	805	CHIN	SM	.	9
7	880609	PM	13	0.23	3	2	805	CHIN	SM	H	1

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7	880609	PM	13.0	0.23	3	2	805	PEAM	.	.	6
7	880609	PM	13.0	0.23	3	2	805	SCUL	.	.	20
7	880609	PM	13.0	0.23	3	2	805	STAR	.	.	4
7	880609	PM	13.0	0.23	3	2	805	SUCK	.	.	1
7	880609	PM	13.0	0.23	3	3	815	CHIN	FR	.	2
7	880609	PM	13.0	0.23	3	3	815	CHIN	SM	.	10
7	880609	PM	13.0	0.23	3	3	815	CHIN	SM	H	3
7	880609	PM	13.0	0.23	3	3	815	PEAM	.	.	3
7	880609	PM	13.0	0.23	3	3	815	RAIN	.	H	1
7	880609	PM	13.0	0.23	3	3	815	SCUL	.	.	6
7	880609	PM	13.0	0.23	3	3	815	STAR	.	.	5
7	880609	PM	13.0	0.23	3	3	815	STIC	.	.	1
7	880609	PP	12.8	0.05	3	1	1045	CHIN	SM	.	1
7	880609	PP	12.8	0.05	3	1	1045	CHIN	SM	H	1
7	880609	PP	12.8	0.05	3	1	1045	PEAM	.	.	5
7	880609	PP	12.8	0.05	3	1	1045	REDS	.	.	1
7	880609	PP	12.8	0.05	3	1	1045	SCUL	.	.	12
7	880609	PP	12.8	0.05	3	1	1045	SQUA	.	.	1
7	880609	PP	12.8	0.05	3	1	1045	STAR	.	.	9
7	880609	PP	12.8	0.05	3	1	1045	SUCK	.	.	6
7	880609	PP	12.8	0.05	3	2	1055	CHIN	FR	.	1
7	880609	PP	12.8	0.05	3	2	1055	CHIN	SM	.	1
7	880609	PP	12.8	0.05	3	2	1055	CHUM	.	.	1
7	880609	PP	12.8	0.05	3	2	1055	PEAM	.	.	1
7	880609	PP	12.8	0.05	3	2	1055	SOCK	.	.	2
7	880609	PP	12.8	0.05	3	2	1055	STAR	.	.	2
7	880609	PP	12.8	0.05	3	3	1100	CHIN	FR	.	1
7	880609	PP	12.8	0.05	3	3	1100	CHIN	SM	.	1
7	880609	PP	12.8	0.05	3	3	1100	CHIN	SM	H	1
7	880609	PP	12.8	0.05	3	3	1100	CHUM	.	.	1
7	880609	PP	12.8	0.05	3	3	1100	PEAM	.	.	1
7	880609	PP	12.8	0.05	3	3	1100	SCUL	.	.	3
7	880609	PP	12.8	0.05	3	3	1100	STIC	.	.	1
8	880616	PA	11.0	0.12	3	1	1420	CHIN	FR	.	2
8	880616	PA	11.0	0.12	3	1	1420	CHUM	FR	.	1
8	880616	PA	11.0	0.12	3	1	1420	PEAM	.	.	1
8	880616	PA	11.0	0.12	3	1	1420	SCUL	.	.	19
8	880616	PA	11.0	0.12	3	1	1420	STAR	.	.	17
8	880616	PA	11.0	0.12	3	2	1426	CHIN	FR	.	1
8	880616	PA	11.0	0.12	3	2	1426	LARV	.	.	1
8	880616	PA	11.0	0.12	3	2	1426	SCUL	.	.	3
8	880616	PA	11.0	0.12	3	2	1426	STAR	.	.	9
8	880616	PA	11.0	0.12	3	3	1432	CHIN	FR	.	1
8	880616	PA	11.0	0.12	3	3	1432	LSSU	.	.	1
8	880616	PA	11.0	0.12	3	3	1432	REDS	.	.	1
8	880616	PA	11.0	0.12	3	3	1432	SCUL	.	.	13
8	880616	PA	11.0	0.12	3	3	1432	SOCK	FR	.	2
8	880616	PA	11.0	0.12	3	3	1432	STAR	.	.	26
8	880616	PB	15.0	0.02	3	1	1555	CHIN	FR	.	11
8	880616	PB	15.0	0.02	3	1	1555	CHIN	SM	.	1

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8	880616	PB	15	0.02	3	1	1555	CHUM	FR	.	2
8	880616	PB	15	0.02	3	1	1555	COHO	FR	.	1
8	880616	PB	15	0.02	3	1	1555	PEAM	.	.	4
8	880616	PB	15	0.02	3	1	1555	STAR	.	.	3
8	880616	PB	15	0.02	3	2	1600	CHIN	FR	.	5
8	880616	PB	15	0.02	3	2	1600	CHUM	FR	.	2
8	880616	PB	15	0.02	3	2	1600	SCUL	.	.	2
8	880616	PB	15	0.02	3	3	1605	CHIN	FR	.	4
8	880616	PB	15	0.02	3	3	1605	CHIN	SM	.	1
8	880616	PM	14	0.20	3	1	1510	CHIN	FR	.	13
8	880616	PM	14	0.20	3	1	1510	CHIN	SM	.	13
8	880616	PM	14	0.20	3	1	1510	CHIN	SM	H	2
8	880616	PM	14	0.20	3	1	1510	DOLL	.	.	1
8	880616	PM	14	0.20	3	1	1510	PEAM	.	.	25
8	880616	PM	14	0.20	3	1	1510	REDS	.	.	5
8	880616	PM	14	0.20	3	1	1510	SCUL	.	.	17
8	880616	PM	14	0.20	3	1	1510	SOCK	FR	.	1
8	880616	PM	14	0.20	3	1	1510	SQUA	.	.	4
8	880616	PM	14	0.20	3	1	1510	STAR	.	.	12
8	880616	PM	14	0.20	3	2	1515	CHIN	SM	.	1
8	880616	PM	14	0.20	3	2	1515	LAMP	.	.	1
8	880616	PM	14	0.20	3	2	1515	PEAM	.	.	3
8	880616	PM	14	0.20	3	2	1515	REDS	.	.	1
8	880616	PM	14	0.20	3	2	1515	SCUL	.	.	8
8	880616	PM	14	0.20	3	2	1515	SOCK	FR	.	1
8	880616	PM	14	0.20	3	2	1515	SQUA	.	.	1
8	880616	PM	14	0.20	3	2	1515	STAR	.	.	5
8	880616	PM	14	0.20	3	3	1523	CHIN	FR	.	2
8	880616	PM	14	0.20	3	3	1523	CHIN	SM	.	1
8	880616	PM	14	0.20	3	3	1523	PEAM	.	.	4
8	880616	PM	14	0.20	3	3	1523	SCUL	.	.	1
8	880616	PM	14	0.20	3	3	1523	SQUA	.	.	2
8	880616	PP	16	0.01	3	1	1630	CRAP	.	.	1
8	880616	PP	16	0.01	3	1	1630	PEAM	.	.	2
8	880616	PP	16	0.01	3	1	1630	SCUL	.	.	1
8	880616	PP	16	0.01	3	1	1630	SOCK	FR	.	1
8	880616	PP	16	0.01	3	1	1630	STAR	.	.	4
8	880616	PP	16	0.01	3	2	1635	CHIN	FR	.	3
8	880616	PP	16	0.01	3	2	1635	CHIN	SM	H	1
8	880616	PP	16	0.01	3	2	1635	SCUL	.	.	7
8	880616	PP	16	0.01	3	2	1635	SOCK	FR	.	1
8	880616	PP	16	0.01	3	2	1635	STAR	.	.	5
8	880616	PP	16	0.01	3	3	1642	CHIN	FR	.	2
8	880616	PP	16	0.01	3	3	1642	CHIN	SM	.	1
8	880616	PP	16	0.01	3	3	1642	CHUM	FR	.	1
8	880616	PP	16	0.01	3	3	1642	STAR	.	.	1
8	880616	RL	15	0.05	3	1	1700	CHIN	FR	.	7
8	880616	RL	15	0.05	3	1	1700	COHO	.	.	1
8	880616	RL	15	0.05	3	1	1700	PEAM	.	.	6
8	880616	RL	15	0.05	3	1	1700	SCUL	.	.	3

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8	880616	RL	15	0.05	3	1	1700	SOCK	FR	.	2
8	880616	RL	15	0.05	3	1	1700	STAR	.	.	1
8	880616	RL	15	0.05	3	1	1700	STIC	.	.	1
8	880616	RL	15	0.05	3	2	1705	CHIN	FR	.	2
8	880616	RL	15	0.05	3	2	1705	CHIN	SM	.	1
8	880616	RL	15	0.05	3	2	1705	PEAM	.	.	1
8	880616	RL	15	0.05	3	2	1705	SCUL	.	.	7
8	880616	RL	15	0.05	3	2	1705	SOCK	FR	.	2
8	880616	RL	15	0.05	3	2	1705	STIC	.	.	1
8	880616	RL	15	0.05	3	3	1712	CHIN	FR	.	1
8	880616	RL	15	0.05	3	3	1712	CHUM	FR	.	2
8	880616	RL	15	0.05	3	3	1712	PEAM	.	.	1
8	880616	RL	15	0.05	3	3	1712	SCUL	.	.	8
8	880616	RL	15	0.05	3	3	1712	STAR	.	.	1
9	880621	PA	16	.	3	1	1440	CHIN	FR	.	1
9	880621	PA	16	.	3	1	1440	LSSU	.	.	1
9	880621	PA	16	.	3	1	1440	SCUL	.	.	4
9	880621	PA	16	.	3	1	1440	SQUA	.	.	1
9	880621	PA	16	.	3	1	1440	STAR	.	.	1
9	880621	PA	16	.	3	2	1445	LSSU	.	.	1
9	880621	PA	16	.	3	2	1445	SCUL	.	.	10
9	880621	PA	16	.	3	2	1445	SQUA	.	.	1
9	880621	PA	16	.	3	2	1445	STAR	.	.	14
9	880621	PA	16	.	3	3	1450	CHIN	SM	.	1
9	880621	PA	16	.	3	3	1450	SCUL	.	.	4
9	880621	PA	16	.	3	3	1450	STAR	.	.	5
9	880621	PB	16	0.08	3	1	1515	CHIN	FR	.	2
9	880621	PB	16	0.08	3	1	1515	PEAM	.	.	8
9	880621	PB	16	0.08	3	1	1515	SQUA	.	.	1
9	880621	PB	16	0.08	3	2	1520	CHIN	FR	.	1
9	880621	PB	16	0.08	3	2	1520	PEAM	.	.	2
9	880621	PB	16	0.08	3	2	1520	REDS	.	.	1
9	880621	PB	16	0.08	3	2	1520	SCUL	.	.	1
9	880621	PB	16	0.08	3	2	1520	SQUA	.	.	1
9	880621	PB	16	0.08	3	2	1520	STIC	.	.	1
9	880621	PB	16	0.08	3	3	1525	CHIN	FR	.	5
9	880621	PB	16	0.08	3	3	1525	CHIN	SM	.	1
9	880621	PB	16	0.08	3	3	1525	PEAM	.	.	1
9	880621	PB	16	0.08	3	3	1525	SQUA	.	.	1
9	880621	PB	16	0.08	3	3	1525	STAR	.	.	1
9	880621	PM	15	0.05	3	1	1335	CHIN	FR	.	4
9	880621	PM	15	0.05	3	1	1335	CHIN	SM	.	6
9	880621	PM	15	0.05	3	1	1335	COHO	.	.	2
9	880621	PM	15	0.05	3	1	1335	LSSU	.	.	1
9	880621	PM	15	0.05	3	1	1335	PEAM	.	.	12
9	880621	PM	15	0.05	3	1	1335	SCUL	.	.	4
9	880621	PM	15	0.05	3	1	1335	SQUA	.	.	9
9	880621	PM	15	0.05	3	1	1335	STAR	.	.	2
9	880621	PM	15	0.05	3	2	1340	CHIN	FR	.	2
9	880621	PM	15	0.05	3	2	1340	CHIN	SM	.	3

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TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
9	880621	PM	15	0.05	3	2	1340	COHO	.	.	1
9	880621	PM	15	0.05	3	2	1340	PEAM	.	.	3
9	880621	PM	15	0.05	3	2	1340	RAIN	.	.	1
9	880621	PM	15	0.05	3	2	1340	SCUL	.	.	5
9	880621	PM	15	0.05	3	2	1340	SOCK	FR	.	1
9	880621	PM	15	0.05	3	2	1340	SQUA	.	.	1
9	880621	PM	15	0.05	3	2	1340	STAR	.	.	5
9	880621	PM	15	0.05	3	2	1340	STIC	.	.	2
9	880621	PM	15	0.05	3	3	1345	CHIN	FR	.	4
9	880621	PM	15	0.05	3	3	1345	CHIN	SM	.	1
9	880621	PM	15	0.05	3	3	1345	RAIN	.	.	1
9	880621	PM	15	0.05	3	3	1345	SCUL	.	.	4
9	880621	PM	15	0.05	3	3	1345	SQUA	.	.	1
9	880621	PM	15	0.05	3	3	1345	STAR	.	.	1
9	880621	PM	15	0.05	3	3	1345	STIC	.	.	1
10	880630	PA	15	0.08	3	1	1215	CHIN	FR	.	5
10	880630	PA	15	0.08	3	1	1215	LSSU	.	.	5
10	880630	PA	15	0.08	3	1	1215	NOSE	.	.	3
10	880630	PA	15	0.08	3	1	1215	PEAM	.	.	1
10	880630	PA	15	0.08	3	1	1215	SCUL	.	.	14
10	880630	PA	15	0.08	3	1	1215	STAR	.	.	32
10	880630	PA	15	0.08	3	2	1220	CHIN	FR	.	1
10	880630	PA	15	0.08	3	2	1220	LSSU	.	.	1
10	880630	PA	15	0.08	3	2	1220	SCUL	.	.	7
10	880630	PA	15	0.08	3	2	1220	SOCK	FR	.	2
10	880630	PA	15	0.08	3	2	1220	SQUA	.	.	1
10	880630	PA	15	0.08	3	2	1220	STAR	.	.	5
10	880630	PA	15	0.08	3	3	1225	CHIN	FR	.	1
10	880630	PA	15	0.08	3	3	1225	REDS	.	.	1
10	880630	PA	15	0.08	3	3	1225	SCUL	.	.	3
10	880630	PA	15	0.08	3	3	1225	SOCK	FR	.	1
10	880630	PA	15	0.08	3	3	1225	STAR	.	.	2
10	880630	PA	15	0.08	3	3	1225	STIC	.	.	1
10	880630	PB	16	0.02	3	1	1045	CHIN	SM	.	2
10	880630	PB	16	0.02	3	1	1045	PEAM	.	.	3
10	880630	PB	16	0.02	3	1	1045	REDS	.	.	1
10	880630	PB	16	0.02	3	1	1045	SQUA	.	.	4
10	880630	PB	16	0.02	3	1	1045	STAR	.	.	3
10	880630	PB	16	0.02	3	2	1050	CHIN	SM	.	1
10	880630	PB	16	0.02	3	2	1050	PEAM	.	.	1
10	880630	PB	16	0.02	3	2	1050	REDS	.	.	3
10	880630	PB	16	0.02	3	2	1050	SQUA	.	.	1
10	880630	PB	16	0.02	3	3	1055	CHIN	SM	.	5
10	880630	PB	16	0.02	3	3	1055	REDS	.	.	1
10	880630	PB	16	0.02	3	3	1055	SQUA	.	.	2
10	880630	PB	16	0.02	3	3	1055	STAR	.	.	2
10	880630	PM	15	0.06	3	1	1305	CHIN	SM	.	13
10	880630	PM	15	0.06	3	1	1305	LSSU	.	.	1
10	880630	PM	15	0.06	3	1	1305	PEAM	.	.	11
10	880630	PM	15	0.06	3	1	1305	RAIN	.	.	2

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TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
10	880630	PM	15	0.06	3	1	1305	REDS	.	.	3
10	880630	PM	15	0.06	3	1	1305	SCUL	.	.	24
10	880630	PM	15	0.06	3	1	1305	SQUA	.	.	17
10	880630	PM	15	0.06	3	1	1305	STAR	.	.	7
10	880630	PM	15	0.06	3	2	1310	CHIN	SM	.	1
10	880630	PM	15	0.06	3	2	1310	CUTT	.	.	1
10	880630	PM	15	0.06	3	2	1310	PEAM	.	.	1
10	880630	PM	15	0.06	3	2	1310	REDS	.	.	2
10	880630	PM	15	0.06	3	2	1310	SCUL	.	.	3
10	880630	PM	15	0.06	3	3	1315	LSSU	.	.	1
10	880630	PM	15	0.06	3	3	1315	PEAM	.	.	4
10	880630	PM	15	0.06	3	3	1315	RAIN	.	.	1
10	880630	PM	15	0.06	3	3	1315	SCUL	.	.	11
10	880630	PP	15	0.05	3	1	1010	CHIN	FR	.	1
10	880630	PP	15	0.05	3	1	1010	LSSU	.	.	2
10	880630	PP	15	0.05	3	1	1010	PEAM	.	.	3
10	880630	PP	15	0.05	3	1	1010	REDS	.	.	1
10	880630	PP	15	0.05	3	1	1010	SCUL	.	.	6
10	880630	PP	15	0.05	3	1	1010	SOCK	FR	.	1
10	880630	PP	15	0.05	3	1	1010	SQUA	.	.	2
10	880630	PP	15	0.05	3	1	1010	STAR	.	.	7
10	880630	PP	15	0.05	3	2	1015	CHIN	FR	.	1
10	880630	PP	15	0.05	3	2	1015	PEAM	.	.	2
10	880630	PP	15	0.05	3	2	1015	REDS	.	.	1
10	880630	PP	15	0.05	3	2	1015	SCUL	.	.	7
10	880630	PP	15	0.05	3	2	1015	STIC	JU	.	3
10	880630	PP	15	0.05	3	3	1020	SCUL	.	.	3
10	880630	PP	15	0.05	3	3	1020	STIC	JU	.	5
10	880630	RL	15	0.05	3	1	930	CHIN	FR	.	2
10	880630	RL	15	0.05	3	1	930	PEAM	.	.	2
10	880630	RL	15	0.05	3	1	930	ROCK	FR	.	1
10	880630	RL	15	0.05	3	1	930	SCUL	.	.	3
10	880630	RL	15	0.05	3	1	930	SOCK	FR	.	2
10	880630	RL	15	0.05	3	1	930	SQUA	.	.	2
10	880630	RL	15	0.05	3	1	930	STAR	.	.	9
10	880630	RL	15	0.05	3	2	935	CHIN	FR	.	1
10	880630	RL	15	0.05	3	2	935	PEAM	.	.	2
10	880630	RL	15	0.05	3	2	935	SCUL	.	.	1
10	880630	RL	15	0.05	3	2	935	STIC	.	.	1
10	880630	RL	15	0.05	3	3	940	CHIN	FR	.	1
11	880706	PA	14	0.07	3	1	1200	CHIN	FR	.	4
11	880706	PA	14	0.07	3	1	1200	LSSU	.	.	7
11	880706	PA	14	0.07	3	1	1200	SCUL	.	.	19
11	880706	PA	14	0.07	3	1	1200	STAR	.	.	9
11	880706	PA	14	0.07	3	2	1205	CHIN	FR	.	3
11	880706	PA	14	0.07	3	2	1205	CHIN	SM	.	3
11	880706	PA	14	0.07	3	2	1205	LSSU	.	.	1
11	880706	PA	14	0.07	3	2	1205	PEAM	.	.	1
11	880706	PA	14	0.07	3	2	1205	SCUL	.	.	7
11	880706	PA	14	0.07	3	2	1205	STAR	.	.	3

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11	880706	PA	14.0	0.07	3	3	1210	CHIN	FR	.	2
11	880706	PA	14.0	0.07	3	3	1210	CHIN	SM	.	1
11	880706	PA	14.0	0.07	3	3	1210	LSSU	.	.	2
11	880706	PA	14.0	0.07	3	3	1210	SCUL	.	.	9
11	880706	PA	14.0	0.07	3	3	1210	SQUA	.	.	1
11	880706	PA	14.0	0.07	3	3	1210	STAR	.	.	3
11	880706	PB	13.5	0.00	3	1	1030	CHIN	FR	.	1
11	880706	PB	13.5	0.00	3	1	1030	CHIN	SM	.	1
11	880706	PB	13.5	0.00	3	1	1030	PEAM	.	.	6
11	880706	PB	13.5	0.00	3	1	1030	REDS	.	.	11
11	880706	PB	13.5	0.00	3	1	1030	ROCK	.	.	1
11	880706	PB	13.5	0.00	3	1	1030	SCUL	.	.	1
11	880706	PB	13.5	0.00	3	1	1030	SOCK	FR	.	1
11	880706	PB	13.5	0.00	3	1	1030	SQUA	.	.	4
11	880706	PB	13.5	0.00	3	1	1030	STIC	.	.	1
11	880706	PB	13.5	0.00	3	1	1030	SUCK	.	.	1
11	880706	PB	13.5	0.00	3	2	1035	CHIN	SM	.	2
11	880706	PB	13.5	0.00	3	2	1035	SCUL	.	.	8
11	880706	PB	13.5	0.00	3	2	1035	SQUA	.	.	4
11	880706	PB	13.5	0.00	3	3	1040	CHIN	SM	.	2
11	880706	PB	13.5	0.00	3	3	1040	PEAM	.	.	1
11	880706	PB	13.5	0.00	3	3	1040	REDS	.	.	4
11	880706	PB	13.5	0.00	3	3	1040	SCUL	.	.	2
11	880706	PB	13.5	0.00	3	3	1040	SQUA	.	.	2
11	880706	PB	13.5	0.00	3	3	1040	STIC	.	.	1
11	880706	PM	14.0	0.17	3	1	1240	CHIN	FR	.	4
11	880706	PM	14.0	0.17	3	1	1240	CHIN	SM	.	4
11	880706	PM	14.0	0.17	3	1	1240	LSSU	.	.	1
11	880706	PM	14.0	0.17	3	1	1240	PEAM	.	.	39
11	880706	PM	14.0	0.17	3	1	1240	REDS	.	.	1
11	880706	PM	14.0	0.17	3	1	1240	ROCK	.	.	1
11	880706	PM	14.0	0.17	3	1	1240	SCUL	.	.	6
11	880706	PM	14.0	0.17	3	1	1240	SQUA	.	.	8
11	880706	PM	14.0	0.17	3	1	1240	STAR	.	.	6
11	880706	PM	14.0	0.17	3	1	1240	STIC	.	.	7
11	880706	PM	14.0	0.17	3	2	1245	CHIN	FR	.	6
11	880706	PM	14.0	0.17	3	2	1245	LSSU	.	.	1
11	880706	PM	14.0	0.17	3	2	1245	PEAM	.	.	6
11	880706	PM	14.0	0.17	3	2	1245	RAIN	.	.	2
11	880706	PM	14.0	0.17	3	2	1245	REDS	.	.	2
11	880706	PM	14.0	0.17	3	2	1245	SCUL	.	.	2
11	880706	PM	14.0	0.17	3	2	1245	SQUA	.	.	1
11	880706	PM	14.0	0.17	3	2	1245	STAR	.	.	1
11	880706	PM	14.0	0.17	3	3	1250	CHIN	FR	.	4
11	880706	PM	14.0	0.17	3	3	1250	CHIN	SM	.	6
11	880706	PM	14.0	0.17	3	3	1250	LSSU	.	.	1
11	880706	PM	14.0	0.17	3	3	1250	SCUL	.	.	1
11	880706	PM	14.0	0.17	3	3	1250	SOCK	FR	.	18
11	880706	PM	14.0	0.17	3	3	1250	STIC	.	.	1
11	880706	PP	14.0	0.00	3	1	950	DOLL	.	.	1

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TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
11	880706	PP	14	0.00	3	1	950	LSSU	.	.	1
11	880706	PP	14	0.00	3	1	950	PEAM	.	.	5
11	880706	PP	14	0.00	3	1	950	REDS	.	.	1
11	880706	PP	14	0.00	3	1	950	SCUL	.	.	3
11	880706	PP	14	0.00	3	1	950	STAR	.	.	3
11	880706	PP	14	0.00	3	1	950	STIC	.	.	1
11	880706	PP	14	0.00	3	2	955	CHIN	SM	.	1
11	880706	PP	14	0.00	3	2	955	PEAM	.	.	6
11	880706	PP	14	0.00	3	2	955	REDS	.	.	1
11	880706	PP	14	0.00	3	2	955	SCUL	.	.	3
11	880706	PP	14	0.00	3	2	955	SQUA	.	.	1
11	880706	PP	14	0.00	3	2	955	STAR	.	.	1
11	880706	PP	14	0.00	3	3	1000	PEAM	.	.	1
11	880706	PP	14	0.00	3	3	1000	REDS	.	.	5
11	880706	PP	14	0.00	3	3	1000	SCUL	.	.	2
11	880706	PP	14	0.00	3	3	1000	SOCK	.	.	1
11	880706	PP	14	0.00	3	3	1000	STAR	.	.	2
11	880706	RL	14	0.09	3	1	915	CHIN	FR	.	2
11	880706	RL	14	0.09	3	1	915	CHIN	SM	.	1
11	880706	RL	14	0.09	3	1	915	PEAM	.	.	1
11	880706	RL	14	0.09	3	1	915	SCUL	.	.	3
11	880706	RL	14	0.09	3	1	915	SOCK	FR	.	5
11	880706	RL	14	0.09	3	1	915	SQUA	.	.	1
11	880706	RL	14	0.09	3	1	915	STAR	.	.	2
11	880706	RL	14	0.09	3	2	920	CHIN	SM	.	1
11	880706	RL	14	0.09	3	2	920	PEAM	.	.	1
11	880706	RL	14	0.09	3	2	920	SCUL	.	.	1
11	880706	RL	14	0.09	3	2	920	SOCK	FR	.	3
11	880706	RL	14	0.09	3	2	920	SQUA	.	.	1
11	880706	RL	14	0.09	3	2	920	STAR	.	.	1
11	880706	RL	14	0.09	3	2	920	STIC	.	.	1
11	880706	RL	14	0.09	3	3	925	CHIN	FR	.	1
11	880706	RL	14	0.09	3	3	925	PEAM	.	.	1
11	880706	RL	14	0.09	3	3	925	SCUL	.	.	5
11	880706	RL	14	0.09	3	3	925	SOCK	FR	.	1
11	880706	RL	14	0.09	3	3	925	STIC	.	.	1
12	880720	CH	18	0.14	5	1	1210	CHIN	.	.	1
12	880720	CH	18	0.14	5	1	1210	PEAM	.	.	1
12	880720	CH	18	0.14	5	1	1210	SCUL	.	.	1
12	880720	CH	18	0.14	5	1	1210	SOCK	.	.	1
12	880720	CH	18	0.14	5	1	1210	STIC	.	.	5
12	880720	CH	18	0.14	5	2	1215	CHIN	.	.	1
12	880720	CH	18	0.14	5	2	1215	LSSU	.	.	3
12	880720	CH	18	0.14	5	2	1215	PEAM	.	.	2
12	880720	CH	18	0.14	5	2	1215	REDS	.	.	1
12	880720	CH	18	0.14	5	2	1215	SOCK	.	.	1
12	880720	CH	18	0.14	5	2	1215	SOCK	AD	.	1
12	880720	CH	18	0.14	5	2	1215	STAR	.	.	5
12	880720	CH	18	0.14	5	2	1215	STIC	.	.	2
12	880720	CH	18	0.14	5	3	1220	PEAM	.	.	2

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12	880720	CH	18.0	0.14	5	3	1220	SOCK	.	.	7
12	880720	CH	18.0	0.14	5	3	1220	STAR	.	.	6
12	880720	CH	18.0	0.14	5	3	1220	STIC	.	.	1
12	880720	CH	18.0	0.14	5	4	1235	CHIN	.	.	3
12	880720	CH	18.0	0.14	5	4	1235	LSSU	.	.	1
12	880720	CH	18.0	0.14	5	4	1235	PEAM	.	.	3
12	880720	CH	18.0	0.14	5	4	1235	REDS	.	.	2
12	880720	CH	18.0	0.14	5	4	1235	SCUL	.	.	2
12	880720	CH	18.0	0.14	5	4	1235	SOCK	.	.	1
12	880720	CH	18.0	0.14	5	4	1235	STAR	.	.	8
12	880720	CH	18.0	0.14	5	5	1240	LSSU	.	.	12
12	880720	CH	18.0	0.14	5	5	1240	SOCK	.	.	1
12	880720	CH	18.0	0.14	5	5	1240	STAR	.	.	7
12	880720	CH	18.0	0.14	5	5	1240	STIC	.	.	4
12	880720	PA	17.5	0.15	3	1	915	CHIN	FR	.	2
12	880720	PA	17.5	0.15	3	1	915	LSSU	.	.	11
12	880720	PA	17.5	0.15	3	1	915	PEAM	.	.	1
12	880720	PA	17.5	0.15	3	1	915	SCUL	.	.	8
12	880720	PA	17.5	0.15	3	1	915	SOCK	FR	.	2
12	880720	PA	17.5	0.15	3	1	915	SQUA	.	.	1
12	880720	PA	17.5	0.15	3	1	915	STAR	.	.	9
12	880720	PA	17.5	0.15	3	1	915	STIC	.	.	1
12	880720	PA	17.5	0.15	3	2	920	LSSU	.	.	1
12	880720	PA	17.5	0.15	3	2	920	RAIN	.	.	1
12	880720	PA	17.5	0.15	3	2	920	SCUL	.	.	2
12	880720	PA	17.5	0.15	3	2	920	SOCK	FR	.	1
12	880720	PA	17.5	0.15	3	2	920	SQUA	.	.	3
12	880720	PA	17.5	0.15	3	2	920	STAR	.	.	5
12	880720	PA	17.5	0.15	3	3	925	LSSU	.	.	1
12	880720	PA	17.5	0.15	3	3	925	PEAM	.	.	1
12	880720	PA	17.5	0.15	3	3	925	REDS	JU	.	2
12	880720	PA	17.5	0.15	3	3	925	SCUL	.	.	5
12	880720	PA	17.5	0.15	3	3	925	SOCK	FR	.	1
12	880720	PA	17.5	0.15	3	3	925	STAR	.	.	2
12	880720	PB	17.5	0.06	3	1	830	CHIN	.	.	1
12	880720	PB	17.5	0.06	3	1	830	PEAM	.	.	2
12	880720	PB	17.5	0.06	3	2	835	PEAM	.	.	2
12	880720	PB	17.5	0.06	3	2	835	REDS	.	.	1
12	880720	PB	17.5	0.06	3	2	835	SCUL	.	.	1
12	880720	PB	17.5	0.06	3	2	835	SOCK	.	.	3
12	880720	PB	17.5	0.06	3	2	835	STIC	.	.	1
12	880720	PB	17.5	0.06	3	3	840	PEAM	.	.	2
12	880720	PB	17.5	0.06	3	3	840	REDS	.	.	16
12	880720	PB	17.5	0.06	3	3	840	SCUL	.	.	1
12	880720	PB	17.5	0.06	3	3	840	STIC	.	.	3
12	880720	PM	18.0	0.10	3	1	1005	CHIN	.	.	9
12	880720	PM	18.0	0.10	3	1	1005	PEAM	.	.	38
12	880720	PM	18.0	0.10	3	1	1005	RAIN	.	.	5
12	880720	PM	18.0	0.10	3	1	1005	REDS	.	.	11
12	880720	PM	18.0	0.10	3	1	1005	SCUL	.	.	9

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TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
12	880720	PM	18	0.10	3	1	1005	SOCK	.	.	9
12	880720	PM	18	0.10	3	1	1005	SQUA	.	.	17
12	880720	PM	18	0.10	3	1	1005	STAR	.	.	5
12	880720	PM	18	0.10	3	1	1005	STIC	.	.	22
12	880720	PM	18	0.10	3	1	1005	SUCK	.	.	5
12	880720	PM	18	0.10	3	2	1015	CHIN	.	.	1
12	880720	PM	18	0.10	3	2	1015	PEAM	.	.	7
12	880720	PM	18	0.10	3	2	1015	RAIN	.	.	2
12	880720	PM	18	0.10	3	2	1015	REDS	.	.	2
12	880720	PM	18	0.10	3	2	1015	SCUL	.	.	9
12	880720	PM	18	0.10	3	2	1015	SQUA	.	.	3
12	880720	PM	18	0.10	3	2	1015	STAR	.	.	2
12	880720	PM	18	0.10	3	2	1015	STIC	.	.	1
12	880720	PM	18	0.10	3	2	1015	SUCK	.	.	2
12	880720	PM	18	0.10	3	3	1020	CHIN	.	.	2
12	880720	PM	18	0.10	3	3	1020	PEAM	.	.	1
12	880720	PM	18	0.10	3	3	1020	RAIN	.	.	1
12	880720	PM	18	0.10	3	3	1020	STIC	.	.	10
12	880720	PP	17	0.01	3	1	755	PEAM	.	.	5
12	880720	PP	17	0.01	3	1	755	SCUL	.	.	1
12	880720	PP	17	0.01	3	1	755	SOCK	.	.	4
12	880720	PP	17	0.01	3	1	755	STAR	.	.	2
12	880720	PP	17	0.01	3	2	800	CHIN	SM	.	1
12	880720	PP	17	0.01	3	2	800	PEAM	.	.	25
12	880720	PP	17	0.01	3	2	800	STAR	.	.	1
12	880720	PP	17	0.01	3	2	800	STIC	.	.	6
12	880720	PP	17	0.01	3	3	805	PEAM	.	.	8
12	880720	PP	17	0.01	3	3	805	SOCK	.	.	1
12	880720	PP	17	0.01	3	3	805	STAR	.	.	1
12	880720	PP	17	0.01	3	3	805	STIC	.	.	26
12	880720	RL	18	0.04	3	1	715	CHIN	SM	.	5
12	880720	RL	18	0.04	3	1	715	PEAM	.	.	1
12	880720	RL	18	0.04	3	1	715	SOCK	FR	.	2
12	880720	RL	18	0.04	3	1	715	STAR	.	.	2
12	880720	RL	18	0.04	3	1	715	STIC	.	.	3
12	880720	RL	18	0.04	3	2	720	CHIN	SM	.	5
12	880720	RL	18	0.04	3	2	720	STAR	.	.	2
12	880720	RL	18	0.04	3	2	720	STIC	.	.	26
12	880720	RL	18	0.04	3	3	725	PEAM	.	.	3
12	880720	RL	18	0.04	3	3	725	SCUL	.	.	4
12	880720	RL	18	0.04	3	3	725	STIC	.	.	15
13	880804	CH	18	0.02	3	1	555	BRID	.	.	3
13	880804	CH	18	0.02	3	1	555	PEAM	.	.	264
13	880804	CH	18	0.02	3	1	555	REDS	.	.	5
13	880804	CH	18	0.02	3	1	555	SCUL	JU	.	2
13	880804	CH	18	0.02	3	1	555	SOCK	.	.	4
13	880804	CH	18	0.02	3	1	555	SQUA	.	.	15
13	880804	CH	18	0.02	3	1	555	STAR	.	.	36
13	880804	CH	18	0.02	3	1	555	STIC	.	.	6
13	880804	CH	18	0.02	3	2	610	BRID	.	.	1

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TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
13	880804	CH	18.0	0.02	3	2	610	PEAM	.	.	61
13	880804	CH	18.0	0.02	3	2	610	SCUL	.	.	4
13	880804	CH	18.0	0.02	3	2	610	SQUA	.	.	6
13	880804	CH	18.0	0.02	3	2	610	STAR	.	.	21
13	880804	CH	18.0	0.02	3	2	610	STIC	.	.	1
13	880804	CH	18.0	0.02	3	3	615	BRID	.	.	1
13	880804	CH	18.0	0.02	3	3	615	PEAM	.	.	84
13	880804	CH	18.0	0.02	3	3	615	REDS	.	.	4
13	880804	CH	18.0	0.02	3	3	615	SCUL	.	.	2
13	880804	CH	18.0	0.02	3	3	615	SQUA	.	.	17
13	880804	CH	18.0	0.02	3	3	615	STAR	.	.	8
13	880804	PA	18.5	0.08	3	1	910	CHIN	SM	.	1
13	880804	PA	18.5	0.08	3	1	910	LSSU	.	.	3
13	880804	PA	18.5	0.08	3	1	910	PEAM	.	.	7
13	880804	PA	18.5	0.08	3	1	910	REDS	.	.	2
13	880804	PA	18.5	0.08	3	1	910	ROCK	.	.	3
13	880804	PA	18.5	0.08	3	1	910	SCUL	.	.	2
13	880804	PA	18.5	0.08	3	1	910	SOCK	FR	.	3
13	880804	PA	18.5	0.08	3	1	910	SQUA	.	.	2
13	880804	PA	18.5	0.08	3	1	910	STAR	.	.	5
13	880804	PA	18.5	0.08	3	2	915	CHIN	SM	.	2
13	880804	PA	18.5	0.08	3	2	915	PEAM	.	.	2
13	880804	PA	18.5	0.08	3	2	915	ROCK	.	.	1
13	880804	PA	18.5	0.08	3	2	915	SCUL	.	.	4
13	880804	PA	18.5	0.08	3	2	915	SOCK	FR	.	2
13	880804	PA	18.5	0.08	3	2	915	STAR	.	.	1
13	880804	PA	18.5	0.08	3	3	920	REDS	.	.	1
13	880804	PA	18.5	0.08	3	3	920	ROCK	.	.	1
13	880804	PA	18.5	0.08	3	3	920	SCUL	.	.	14
13	880804	PA	18.5	0.08	3	3	920	STIC	.	.	1
13	880804	PB	18.5	0.02	3	1	820	PEAM	.	.	6
13	880804	PB	18.5	0.02	3	1	820	REDS	.	.	11
13	880804	PB	18.5	0.02	3	1	820	SCUL	.	.	1
13	880804	PB	18.5	0.02	3	1	820	SQUA	.	.	2
13	880804	PB	18.5	0.02	3	1	820	SUCK	.	.	2
13	880804	PB	18.5	0.02	3	2	825	PEAM	.	.	8
13	880804	PB	18.5	0.02	3	2	825	REDS	.	.	13
13	880804	PB	18.5	0.02	3	2	825	SOCK	FR	.	1
13	880804	PB	18.5	0.02	3	2	825	SQUA	.	.	2
13	880804	PB	18.5	0.02	3	3	830	PEAM	.	.	6
13	880804	PB	18.5	0.02	3	3	830	REDS	.	.	4
13	880804	PB	18.5	0.02	3	3	830	SQUA	.	.	1
13	880804	PB	18.5	0.02	3	3	830	SUCK	.	.	1
13	880804	PM	19.5	0.06	3	1	950	PEAM	.	.	20
13	880804	PM	19.5	0.06	3	1	950	REDS	.	.	14
13	880804	PM	19.5	0.06	3	1	950	ROCK	.	.	1
13	880804	PM	19.5	0.06	3	1	950	SCUL	.	.	1
13	880804	PM	19.5	0.06	3	1	950	SOCK	FR	.	1
13	880804	PM	19.5	0.06	3	1	950	SQUA	.	.	43
13	880804	PM	19.5	0.06	3	1	950	STAR	.	.	4

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TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
13	880804	PM	19.5	0.06	3	1	950	STIC	AD	.	2
13	880804	PM	19.5	0.06	3	1	950	STIC	JU	.	12
13	880804	PM	19.5	0.06	3	1	950	SUCK	.	.	1
13	880804	PM	19.5	0.06	3	2	955	CHIN	SM	.	1
13	880804	PM	19.5	0.06	3	2	955	DOLL	.	.	1
13	880804	PM	19.5	0.06	3	2	955	PEAM	.	.	6
13	880804	PM	19.5	0.06	3	2	955	RAIN	.	.	1
13	880804	PM	19.5	0.06	3	2	955	REDS	.	.	9
13	880804	PM	19.5	0.06	3	2	955	SCUL	.	.	2
13	880804	PM	19.5	0.06	3	2	955	SOCK	FR	.	1
13	880804	PM	19.5	0.06	3	2	955	SQUA	.	.	19
13	880804	PM	19.5	0.06	3	2	955	STIC	JU	.	2
13	880804	PM	19.5	0.06	3	2	955	SUCK	.	.	1
13	880804	PM	19.5	0.06	3	3	1000	CHIN	SM	.	1
13	880804	PM	19.5	0.06	3	3	1000	DOLL	.	.	1
13	880804	PM	19.5	0.06	3	3	1000	PEAM	.	.	6
13	880804	PM	19.5	0.06	3	3	1000	REDS	.	.	2
13	880804	PM	19.5	0.06	3	3	1000	ROCK	.	.	1
13	880804	PM	19.5	0.06	3	3	1000	SCUL	.	.	1
13	880804	PM	19.5	0.06	3	3	1000	SQUA	.	.	9
13	880804	PM	19.5	0.06	3	3	1000	STAR	.	.	1
13	880804	PM	19.5	0.06	3	3	1000	STIC	AD	.	2
13	880804	PP	18.5	0.03	3	1	720	LSSU	.	.	1
13	880804	PP	18.5	0.03	3	1	720	PEAM	.	.	22
13	880804	PP	18.5	0.03	3	1	720	REDS	.	.	11
13	880804	PP	18.5	0.03	3	1	720	ROCK	.	.	1
13	880804	PP	18.5	0.03	3	1	720	SCUL	.	.	2
13	880804	PP	18.5	0.03	3	1	720	SOCK	FR	.	3
13	880804	PP	18.5	0.03	3	1	720	SQUA	.	.	2
13	880804	PP	18.5	0.03	3	1	720	STAR	.	.	11
13	880804	PP	18.5	0.03	3	1	720	STIC	.	.	1
13	880804	PP	18.5	0.03	3	2	730	PEAM	.	.	15
13	880804	PP	18.5	0.03	3	2	730	REDS	.	.	14
13	880804	PP	18.5	0.03	3	2	730	ROCK	.	.	2
13	880804	PP	18.5	0.03	3	2	730	SOCK	FR	.	1
13	880804	PP	18.5	0.03	3	2	730	SQUA	.	.	4
13	880804	PP	18.5	0.03	3	2	730	STAR	.	.	6
13	880804	PP	18.5	0.03	3	2	730	STIC	.	.	1
13	880804	PP	18.5	0.03	3	3	737	CHIN	SM	.	1
13	880804	PP	18.5	0.03	3	3	737	PEAM	.	.	12
13	880804	PP	18.5	0.03	3	3	737	REDS	.	.	15
13	880804	PP	18.5	0.03	3	3	737	SOCK	FR	.	1
13	880804	PP	18.5	0.03	3	3	737	SQUA	.	.	4
13	880804	PP	18.5	0.03	3	3	737	STAR	.	.	7
13	880804	PP	18.5	0.03	3	3	737	STIC	.	.	1
13	880804	RL	18.0	0.06	3	1	535	CHIN	SM	.	1
13	880804	RL	18.0	0.06	3	1	535	PEAM	.	.	1
13	880804	RL	18.0	0.06	3	1	535	SCUL	.	.	5
13	880804	RL	18.0	0.06	3	1	535	SOCK	.	.	3
13	880804	RL	18.0	0.06	3	1	535	SQUA	.	.	2

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TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
13	880804	RL	18.0	0.06	3	1	535	STAR	.	.	6
13	880804	RL	18.0	0.06	3	1	535	STIC	JU	.	1
13	880804	RL	18.0	0.06	3	2	540	RAIN	.	.	1
13	880804	RL	18.0	0.06	3	2	540	REDS	.	.	1
13	880804	RL	18.0	0.06	3	2	540	SCUL	.	.	10
13	880804	RL	18.0	0.06	3	2	540	STAR	.	.	6
13	880804	RL	18.0	0.06	3	2	540	STIC	JU	.	4
13	880804	RL	18.0	0.06	3	3	545	PEAM	.	.	4
13	880804	RL	18.0	0.06	3	3	545	REDS	.	.	2
13	880804	RL	18.0	0.06	3	3	545	ROCK	.	.	1
13	880804	RL	18.0	0.06	3	3	545	SCUL	.	.	5
13	880804	RL	18.0	0.06	3	3	545	SOCK	.	.	1
13	880804	RL	18.0	0.06	3	3	545	SQUA	.	.	1
13	880804	RL	18.0	0.06	3	3	545	STAR	.	.	1
13	880804	RL	18.0	0.06	3	3	545	STIC	AD	.	1
14	880817	PA	17.5	0.07	3	1	1600	LSSU	.	.	7
14	880817	PA	17.5	0.07	3	1	1600	PEAM	.	.	9
14	880817	PA	17.5	0.07	3	1	1600	ROCK	.	.	3
14	880817	PA	17.5	0.07	3	1	1600	SOCK	SM	.	5
14	880817	PA	17.5	0.07	3	1	1600	SQUA	.	.	11
14	880817	PA	17.5	0.07	3	1	1600	STAR	.	.	3
14	880817	PA	17.5	0.07	3	2	1605	LSSU	.	.	4
14	880817	PA	17.5	0.07	3	2	1605	PEAM	.	.	7
14	880817	PA	17.5	0.07	3	2	1605	REDS	.	.	3
14	880817	PA	17.5	0.07	3	2	1605	ROCK	.	.	3
14	880817	PA	17.5	0.07	3	2	1605	SCUL	.	.	7
14	880817	PA	17.5	0.07	3	2	1605	SOCK	SM	.	2
14	880817	PA	17.5	0.07	3	2	1605	SQUA	.	.	4
14	880817	PA	17.5	0.07	3	2	1605	STAR	.	.	1
14	880817	PA	17.5	0.07	3	3	1610	REDS	.	.	1
14	880817	PA	17.5	0.07	3	3	1610	ROCK	.	.	2
14	880817	PA	17.5	0.07	3	3	1610	SCUL	.	.	3
14	880817	PA	17.5	0.07	3	3	1610	STAR	.	.	1
14	880817	PB	16.0	0.07	3	1	1515	PEAM	.	.	1
14	880817	PB	16.0	0.07	3	1	1515	REDS	.	.	5
14	880817	PB	16.0	0.07	3	1	1515	SQUA	.	.	3
14	880817	PB	16.0	0.07	3	2	1520	LARV	.	.	2
14	880817	PB	16.0	0.07	3	2	1520	PEAM	.	.	1
14	880817	PB	16.0	0.07	3	2	1520	REDS	.	.	4
14	880817	PB	16.0	0.07	3	2	1520	STIC	JU	.	1
14	880817	PB	16.0	0.07	3	3	1525	LARV	.	.	2
14	880817	PB	16.0	0.07	3	3	1525	LSSU	.	.	2
14	880817	PB	16.0	0.07	3	3	1525	PEAM	.	.	1
14	880817	PB	16.0	0.07	3	3	1525	REDS	.	.	2
14	880817	PB	16.0	0.07	3	3	1525	SCUL	.	.	1
14	880817	PB	16.0	0.07	3	3	1525	SQUA	.	.	2
14	880817	PM	18.0	0.04	3	1	1645	LARV	.	.	1
14	880817	PM	18.0	0.04	3	1	1645	LSSU	.	.	1
14	880817	PM	18.0	0.04	3	1	1645	PEAM	.	.	46
14	880817	PM	18.0	0.04	3	1	1645	REDS	.	.	2

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TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
14	880817	PM	18.0	0.04	3	1	1645	SCUL	.	.	21
14	880817	PM	18.0	0.04	3	1	1645	SQUA	.	.	29
14	880817	PM	18.0	0.04	3	1	1645	STIC	JU	.	1
14	880817	PM	18.0	0.04	3	2	1650	LARV	.	.	1
14	880817	PM	18.0	0.04	3	2	1650	PEAM	.	.	4
14	880817	PM	18.0	0.04	3	2	1650	SCUL	.	.	26
14	880817	PM	18.0	0.04	3	2	1650	SOCK	SM	.	1
14	880817	PM	18.0	0.04	3	2	1650	SQUA	.	.	2
14	880817	PM	18.0	0.04	3	2	1650	STAR	.	.	1
14	880817	PM	18.0	0.04	3	3	1655	PEAM	.	.	6
14	880817	PM	18.0	0.04	3	3	1655	REDS	.	.	1
14	880817	PM	18.0	0.04	3	3	1655	SCUL	.	.	22
14	880817	PM	18.0	0.04	3	3	1655	SQUA	.	.	3
14	880817	PM	18.0	0.04	3	3	1655	STAR	.	.	1
14	880817	PM	18.0	0.04	3	3	1655	STIC	AD	.	1
14	880817	PM	18.0	0.04	3	3	1655	STIC	JU	.	2
14	880817	PP	18.0	0.01	3	1	1425	LSSU	.	.	59
14	880817	PP	18.0	0.01	3	1	1425	PEAM	.	.	21
14	880817	PP	18.0	0.01	3	1	1425	REDS	.	.	1
14	880817	PP	18.0	0.01	3	1	1425	SCUL	.	.	1
14	880817	PP	18.0	0.01	3	1	1425	SOCK	SM	.	2
14	880817	PP	18.0	0.01	3	1	1425	SQUA	.	.	1
14	880817	PP	18.0	0.01	3	1	1425	STAR	.	.	7
14	880817	PP	18.0	0.01	3	2	1435	LSSU	.	.	1
14	880817	PP	18.0	0.01	3	2	1435	PEAM	.	.	9
14	880817	PP	18.0	0.01	3	2	1435	SCUL	.	.	1
14	880817	PP	18.0	0.01	3	2	1435	STAR	.	.	5
14	880817	PP	18.0	0.01	3	2	1435	STIC	AD	.	1
14	880817	PP	18.0	0.01	3	3	1440	LSSU	.	.	1
14	880817	PP	18.0	0.01	3	3	1440	PEAM	.	.	1
14	880817	PP	18.0	0.01	3	3	1440	REDS	.	.	2
14	880817	PP	18.0	0.01	3	3	1440	SCUL	.	.	2
14	880817	PP	18.0	0.01	3	3	1440	STAR	.	.	3
14	880817	PP	18.0	0.01	3	3	1440	STIC	JU	.	4
14	880817	RL	18.5	0.04	3	1	1325	CHIN	SM	.	1
14	880817	RL	18.5	0.04	3	1	1325	LSSU	.	.	1
14	880817	RL	18.5	0.04	3	1	1325	PEAM	.	.	4
14	880817	RL	18.5	0.04	3	1	1325	SCUL	.	.	2
14	880817	RL	18.5	0.04	3	1	1325	SOCK	SM	.	1
14	880817	RL	18.5	0.04	3	1	1325	SQUA	.	.	2
14	880817	RL	18.5	0.04	3	1	1325	STAR	.	.	12
14	880817	RL	18.5	0.04	3	1	1325	STIC	AD	.	3
14	880817	RL	18.5	0.04	3	1	1325	STIC	JU	.	2
14	880817	RL	18.5	0.04	3	2	1330	LSSU	.	.	1
14	880817	RL	18.5	0.04	3	2	1330	PEAM	.	.	3
14	880817	RL	18.5	0.04	3	2	1330	ROCK	.	.	1
14	880817	RL	18.5	0.04	3	2	1330	SCUL	.	.	1
14	880817	RL	18.5	0.04	3	2	1330	SQUA	.	.	2
14	880817	RL	18.5	0.04	3	2	1330	STAR	.	.	5
14	880817	RL	18.5	0.04	3	3	1335	LSSU	.	.	1

Fraser River Beach Seine Catch Data - 1988

TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
14	880817	RL	18.5	0.04	3	3	1335	PEAM	.	.	2
14	880817	RL	18.5	0.04	3	3	1335	SCUL	.	.	4
14	880817	RL	18.5	0.04	3	3	1335	STAR	.	.	11
15	880830	PA	20.0	0.08	3	1	1500	CUTT	.	H	1
15	880830	PA	20.0	0.08	3	1	1500	PEAM	.	.	14
15	880830	PA	20.0	0.08	3	1	1500	REDS	.	.	2
15	880830	PA	20.0	0.08	3	1	1500	ROCK	.	.	4
15	880830	PA	20.0	0.08	3	1	1500	SCUL	.	.	8
15	880830	PA	20.0	0.08	3	1	1500	SQUA	.	.	26
15	880830	PA	20.0	0.08	3	1	1500	STAR	.	.	11
15	880830	PA	20.0	0.08	3	1	1500	SUCK	.	.	1
15	880830	PA	20.0	0.08	3	2	1505	LSSU	.	.	1
15	880830	PA	20.0	0.08	3	2	1505	ROCK	.	.	1
15	880830	PA	20.0	0.08	3	2	1505	SCUL	.	.	4
15	880830	PA	20.0	0.08	3	2	1505	SQUA	.	.	2
15	880830	PA	20.0	0.08	3	2	1505	STAR	.	.	2
15	880830	PA	20.0	0.08	3	3	1510	LAMP	LA	.	1
15	880830	PA	20.0	0.08	3	3	1510	PEAM	.	.	1
15	880830	PA	20.0	0.08	3	3	1510	SCUL	.	.	3
15	880830	PA	20.0	0.08	3	3	1510	STAR	.	.	1
15	880830	PB	20.0	0.01	3	1	1415	LARV	.	.	1
15	880830	PB	20.0	0.01	3	1	1415	SCUL	.	.	4
15	880830	PB	20.0	0.01	3	2	1420	PEAM	JU	.	21
15	880830	PB	20.0	0.01	3	2	1420	SCUL	.	.	1
15	880830	PB	20.0	0.01	3	2	1420	SQUA	.	.	2
15	880830	PB	20.0	0.01	3	2	1420	STIC	JU	.	1
15	880830	PB	20.0	0.01	3	3	1425	PEAM	.	.	3
15	880830	PB	20.0	0.01	3	3	1425	PEAM	JU	.	7
15	880830	PB	20.0	0.01	3	3	1425	SCUL	.	.	1
15	880830	PB	20.0	0.01	3	3	1425	SQUA	.	.	1
15	880830	PB	20.0	0.01	3	3	1425	STIC	JU	.	1
15	880830	PM	20.0	0.04	3	1	1550	LARV	.	.	6
15	880830	PM	20.0	0.04	3	1	1550	LSSU	.	.	4
15	880830	PM	20.0	0.04	3	1	1550	PEAM	.	.	37
15	880830	PM	20.0	0.04	3	1	1550	REDS	.	.	3
15	880830	PM	20.0	0.04	3	1	1550	SCUL	.	.	4
15	880830	PM	20.0	0.04	3	1	1550	SQUA	.	.	3
15	880830	PM	20.0	0.04	3	1	1550	STAR	.	.	1
15	880830	PM	20.0	0.04	3	1	1550	STIC	JU	.	1
15	880830	PM	20.0	0.04	3	2	1555	PEAM	.	.	7
15	880830	PM	20.0	0.04	3	2	1555	ROCK	.	.	1
15	880830	PM	20.0	0.04	3	2	1555	SCUL	.	.	19
15	880830	PM	20.0	0.04	3	3	1600	PEAM	.	.	2
15	880830	PM	20.0	0.04	3	3	1600	SCUL	.	.	7
15	880830	PM	20.0	0.04	3	3	1600	SQUA	.	.	2
15	880830	PM	20.0	0.04	3	3	1600	STAR	.	.	1
15	880830	PM	20.0	0.04	3	3	1600	STIC	JU	.	1
15	880830	PP	20.0	0.00	3	1	1325	LSSU	.	.	26
15	880830	PP	20.0	0.00	3	1	1325	PEAM	.	.	60
15	880830	PP	20.0	0.00	3	1	1325	REDS	.	.	5

Fraser River Beach Seine Catch Data - 1988

TRIP	DATE	SITE	TEMP	FLOW	TSET	SET	TIME	SPEC	STGE	ORG	TOT
15	880830	PP	20.0	0.00	3	1	1325	SCUL	.	.	2
15	880830	PP	20.0	0.00	3	1	1325	SQUA	.	.	17
15	880830	PP	20.0	0.00	3	1	1325	STAR	.	.	8
15	880830	PP	20.0	0.00	3	2	1330	LSSU	.	.	2
15	880830	PP	20.0	0.00	3	2	1330	PEAM	.	.	16
15	880830	PP	20.0	0.00	3	2	1330	REDS	.	.	1
15	880830	PP	20.0	0.00	3	2	1330	SCUL	.	.	4
15	880830	PP	20.0	0.00	3	2	1330	SQUA	.	.	2
15	880830	PP	20.0	0.00	3	2	1330	STAR	.	.	11
15	880830	PP	20.0	0.00	3	2	1330	STIC	JU	.	1
15	880830	PP	20.0	0.00	3	3	1335	PEAM	.	.	2
15	880830	PP	20.0	0.00	3	3	1335	SCUL	.	.	2
15	880830	PP	20.0	0.00	3	3	1335	SQUA	.	.	2
15	880830	PP	20.0	0.00	3	3	1335	STAR	.	.	3
15	880830	RL	18.5	0.01	3	1	1230	CUTT	.	.	1
15	880830	RL	18.5	0.01	3	1	1230	PEAM	.	.	7
15	880830	RL	18.5	0.01	3	1	1230	SOCK	SM	.	1
15	880830	RL	18.5	0.01	3	1	1230	SQUA	.	.	3
15	880830	RL	18.5	0.01	3	1	1230	STAG	.	.	2
15	880830	RL	18.5	0.01	3	1	1230	STAR	.	.	8
15	880830	RL	18.5	0.01	3	2	1235	SCUL	.	.	3
15	880830	RL	18.5	0.01	3	2	1235	SQUA	.	.	1
15	880830	RL	18.5	0.01	3	2	1235	STAG	.	.	4
15	880830	RL	18.5	0.01	3	2	1235	STAR	.	.	9
15	880830	RL	18.5	0.01	3	2	1235	STIC	AD	.	1
15	880830	RL	18.5	0.01	3	2	1235	STIC	JU	.	4
15	880830	RL	18.5	0.01	3	3	1240	PEAM	.	.	4
15	880830	RL	18.5	0.01	3	3	1240	SCUL	.	.	4
15	880830	RL	18.5	0.01	3	3	1240	SQUA	.	.	3
15	880830	RL	18.5	0.01	3	3	1240	STAR	.	.	10
15	880830	RL	18.5	0.01	3	3	1240	STIC	JU	.	9

Table 4. Length (mm) - weight (gms) data from formaldehyde preserved juvenile salmon collected from the Fraser River by beach seine during 1988.

Fraser River Beach Seine Data - 1988
Length - Weight Data From Juvenile Salmonids
Specimens Preserved in Formaldehyde

DATE	SITE	IDNUM	SPECIES	LENGTH	WEIGHT	ORIGIN
880317	PB	883253	CHUM	37	0.46	.
880317	PB	883254	CHUM	37	0.50	.
880317	PB	883255	CHUM	34	0.32	.
880317	PB	883256	CHUM	35	0.42	.
880317	PB	883257	CHUM	38	0.44	.
880317	PB	883258	CHUM	39	0.42	.
880317	PB	883259	CHUM	40	0.52	.
880317	PB	883260	CHUM	35	0.36	.
880317	PB	883261	CHUM	33	0.24	.
880317	PB	883262	CHUM	32	0.24	.
880317	PB	883263	CHUM	31	0.20	.
880317	PB	883264	PINK	33	0.22	.
880317	PB	883265	PINK	30	0.20	.
880317	PB	883266	PINK	29	0.20	.
880317	PB	883267	PINK	32	0.22	.
880317	PI	883268	CHIN	72	3.90	.
880317	PI	883269	CHIN	38	0.52	.
880317	PI	883273	CHUM	37	0.38	.
880317	PI	883274	CHUM	36	0.36	.
880317	PI	883275	CHUM	36	0.38	.
880317	PI	883270	PINK	32	0.24	.
880317	PI	883271	PINK	29	0.18	.
880317	PI	883272	PINK	33	0.26	.
880317	RL	883276	CHUM	36	0.40	.
880317	RL	883277	CHUM	36	0.40	.
880317	RL	883278	CHUM	43	0.58	.
880317	RL	883279	CHUM	42	0.58	.
880317	RL	883280	CHUM	37	0.44	.
880317	RL	883281	CHUM	35	0.38	.
880526	PA	880044	CHIN	74	4.24	H
880526	PA	882879	CHIN	42	0.66	.
880526	PA	882880	SOCK	28	0.14	.
880526	PB	880041	CHIN	71	4.46	H
880526	PB	880042	CHIN	71	3.96	H
880526	PB	880043	CHIN	69	3.52	H
880527	PA	880045	CHIN	82	6.10	H
880527	PB	882920	CHIN	65	3.06	H
880527	PM	882881	CHIN	77	5.34	.
880527	PM	882882	CHIN	84	7.18	.
880527	PM	882883	CHIN	84	7.26	.
880527	PM	882884	CHIN	75	4.48	.
880527	PM	882885	CHIN	74	4.80	.
880527	PM	882886	CHIN	83	6.02	.
880527	PM	882887	CHIN	79	5.78	.
880527	PM	882888	CHIN	71	4.14	.
880527	PM	882889	CHIN	78	5.56	.
880527	PM	882890	CHIN	84	6.52	.
880527	PM	882891	CHIN	86	6.66	.

Fraser River Beach Seine Data - 1988
Length - Weight Data From Juvenile Salmonids
Specimens Preserved in Formaldehyde

DATE	SITE	IDNUM	SPECIES	LENGTH	WEIGHT	ORIGIN
880527	PM	882892	CHIN	71	3.62	.
880527	PM	882893	CHIN	81	6.22	.
880527	PM	882894	CHIN	78	4.94	.
880527	PM	882895	CHIN	81	6.02	.
880527	PM	882896	CHIN	84	7.34	.
880527	PM	882897	CHIN	77	5.08	.
880527	PM	882898	CHIN	68	3.54	.
880527	PM	882899	CHIN	77	5.38	.
880527	PM	882901	CHIN	84	5.88	.
880527	PM	882902	CHIN	79	5.76	.
880527	PM	882903	CHIN	81	6.02	.
880527	PM	882904	CHIN	84	6.88	.
880527	PM	882905	CHIN	78	4.82	.
880527	PM	882906	CHIN	79	5.36	.
880527	PM	882907	CHIN	79	5.34	.
880527	PM	882908	CHIN	83	7.26	.
880527	PM	882909	CHIN	76	4.90	.
880527	PM	882910	CHIN	79	6.02	.
880527	PM	882911	CHIN	78	5.18	.
880527	PM	882912	CHIN	81	6.28	.
880527	PM	882913	CHIN	104	11.88	.
880527	PM	882914	CHIN	84	6.08	.
880527	PM	882915	CHIN	80	5.92	.
880527	PM	882916	CHIN	79	5.10	.
880527	PM	882917	CHIN	62	2.30	.
880527	PM	882900	COHO	73	3.62	.
880527	PM	882918	COHO	113	13.68	H
880527	PM	882919	COHO	127	19.72	.
880527	RL	880046	CHIN	71	3.48	H
880531	PA	880048	CHIN	71	3.58	H
880531	PA	882921	CHIN	59	2.14	.
880531	PA	882922	CHIN	51	1.38	.
880531	PA	882923	PINK	25	0.14	.
880531	PB	880047	CHIN	93	8.78	H
880531	PB	882934	CHIN	52	1.56	.
880531	PB	882935	CHIN	52	1.46	.
880531	PB	882936	CHIN	49	1.14	.
880531	PB	882937	CHIN	45	1.00	.
880531	PB	882938	CHIN	42	0.76	.
880531	PB	882939	CHIN	41	0.62	.
880531	PB	882940	SOCK	43	0.76	.
880531	PM	880049	CHIN	84	7.96	H
880531	PM	880050	CHIN	76	4.90	H
880531	PM	880051	CHIN	90	9.02	H
880531	PM	880052	CHIN	86	7.56	H
880531	PM	880053	CHIN	84	6.92	H
880531	PM	880054	CHIN	78	5.96	H
880531	PM	880055	CHIN	77	4.46	H

Fraser River Beach Seine Data - 1988
Length - Weight Data From Juvenile Salmonids
Specimens Preserved in Formaldehyde

DATE	SITE	IDNUM	SPECIES	LENGTH	WEIGHT	ORIGIN
880531	PM	880056	CHIN	94	10.08	H
880531	PM	880057	CHIN	84	6.74	H
880531	PM	880058	CHIN	94	9.58	H
880531	PM	882924	CHIN	85	6.56	.
880531	PM	882925	CHIN	54	1.82	.
880531	PM	882926	CHIN	49	1.22	.
880531	PM	882927	CHIN	43	0.84	.
880531	PM	882928	CHIN	37	0.56	.
880531	PM	882929	CHIN	43	0.54	.
880531	PM	882930	CHIN	40	0.48	.
880531	PM	882931	RAIN	24	0.12	.
880531	PM	882932	SOCK	29	0.18	.
880531	PP	882933	CHIN	46	0.94	.
880602	PA	882986	CHIN	53	1.80	.
880602	PA	882987	CHIN	44	0.98	.
880602	PA	882988	CHIN	47	1.02	.
880602	PA	882989	CHIN	42	0.88	.
880602	PA	882990	CHIN	40	0.66	.
880602	PB	880064	CHIN	74	4.74	H
880602	PB	882962	CHIN	45	1.00	.
880602	PB	882963	CHIN	53	1.62	.
880602	PB	882964	CHIN	49	1.28	.
880602	PB	882965	CHIN	48	1.02	.
880602	PB	882966	CHIN	44	0.86	.
880602	PB	882967	CHIN	46	1.16	.
880602	PB	882968	CHIN	44	0.86	.
880602	PB	882969	CHIN	40	0.64	.
880602	PB	882970	CHIN	47	0.98	.
880602	PB	882971	CHIN	44	0.94	.
880602	PB	882972	CHIN	39	0.62	.
880602	PB	882973	CHIN	42	0.84	.
880602	PB	882974	CHIN	37	0.46	.
880602	PM	880059	CHIN	76	5.32	H
880602	PM	880060	CHIN	82	7.08	H
880602	PM	882975	CHIN	69	3.50	.
880602	PM	882976	CHIN	59	2.10	.
880602	PM	882977	CHIN	47	1.16	.
880602	PM	882978	CHIN	52	1.54	.
880602	PM	882979	CHIN	48	1.34	.
880602	PM	882980	CHIN	48	1.10	.
880602	PM	882981	CHIN	40	0.76	.
880602	PM	882982	CHIN	38	0.54	.
880602	PM	882983	CHIN	39	0.58	.
880602	PM	882984	CHIN	35	0.44	.
880602	PM	882985	SOCK	29	0.20	.
880602	PP	880065	CHIN	81	5.70	H
880602	PP	882953	CHIN	44	0.98	.
880602	PP	882954	CHIN	53	1.46	.

Fraser River Beach Seine Data - 1988
Length - Weight Data From Juvenile Salmonids
Specimens Preserved in Formaldehyde

DATE	SITE	IDNUM	SPECIES	LENGTH	WEIGHT	ORIGIN
880602	PP	882955	CHIN	41	0.72	.
880602	PP	882956	CHIN	44	0.86	.
880602	PP	882957	CHIN	43	0.82	.
880602	PP	882958	CHIN	42	0.74	.
880602	PP	882959	CHIN	39	0.58	.
880602	PP	882960	CHIN	40	0.64	.
880602	PP	882961	CHIN	37	0.50	.
880602	RL	880061	CHIN	78	5.86	H
880602	RL	880063	CHIN	71	4.16	H
880602	RL	882942	CHIN	52	1.62	.
880602	RL	882943	CHIN	57	2.08	.
880602	RL	882944	CHIN	53	1.70	.
880602	RL	882945	CHIN	53	1.62	.
880602	RL	882946	CHIN	45	0.92	.
880602	RL	882947	CHIN	46	1.10	.
880602	RL	882948	CHIN	48	1.16	.
880602	RL	882949	CHIN	42	0.84	.
880602	RL	882950	CHIN	43	0.66	.
880602	RL	882951	CHIN	39	0.54	.
880602	RL	882952	CHIN	37	0.38	.
880602	RL	880062	COHO	118	16.80	H
880602	RL	882941	COHO	80	5.32	.
880607	PA	880066	CHIN	104	11.42	H
880607	PA	880067	CHIN	74	4.52	H
880607	PA	880068	CHIN	92	7.76	H
880607	PM	880070	CHIN	85	6.22	H
880607	PM	880071	CHIN	84	6.78	H
880607	PM	880072	CHIN	78	5.72	H
880607	PM	880073	CHIN	79	6.28	H
880607	PM	880074	CHIN	81	6.36	H
880607	PM	880075	CHIN	78	5.38	H
880607	PM	880076	CHIN	80	6.58	H
880607	PM	880077	CHIN	88	8.04	H
880607	PM	880078	CHIN	81	6.20	H
880607	PM	880079	CHIN	92	8.52	H
880607	PM	880080	CHIN	84	6.74	H
880607	PM	880081	CHIN	88	7.70	H
880607	PM	880082	CHIN	90	7.48	H
880607	PM	880083	CHIN	91	8.28	H
880607	PM	880084	CHIN	83	6.28	H
880607	PM	880085	CHIN	80	5.76	H
880607	PM	880086	CHIN	87	7.18	H
880607	PM	880087	CHIN	91	9.62	H
880607	PM	880069	COHO	129	20.44	H
880609	CH	883020	CHIN	48	1.10	.
880609	CH	883021	CHIN	47	1.16	.
880609	CH	883022	CHIN	43	0.84	.
880609	CH	883023	SOCK	42	0.70	.

Fraser River Beach Seine Data - 1988
Length - Weight Data From Juvenile Salmonids
Specimens Preserved in Formaldehyde

DATE	SITE	IDNUM	SPECIES	LENGTH	WEIGHT	ORIGIN
880609	PA	883003	CHIN	43	0.72	.
880609	PA	883004	CHIN	42	0.66	.
880609	PA	883005	CHUM	31	0.20	.
880609	PB	883008	CHIN	52	1.68	.
880609	PB	883009	CHIN	53	1.70	.
880609	PB	883010	CHIN	48	1.20	.
880609	PB	883011	CHIN	54	1.74	.
880609	PB	883012	CHIN	64	2.76	.
880609	PB	883013	CHIN	50	1.54	.
880609	PB	883014	CHIN	52	1.38	.
880609	PB	883007	CHUM	37	0.40	.
880609	PB	883006	PINK	25	0.14	.
880609	PM	880088	CHIN	89	7.86	H
880609	PM	880089	CHIN	90	9.76	H
880609	PM	880090	CHIN	98	10.58	H
880609	PM	880091	CHIN	83	6.78	H
880609	PM	880092	CHIN	88	7.16	H
880609	PM	880093	CHIN	75	4.88	H
880609	PM	880094	CHIN	95	9.56	H
880609	PM	880095	CHIN	93	9.10	H
880609	PM	880096	CHIN	87	6.92	H
880609	PM	880097	CHIN	78	5.26	H
880609	PM	882991	CHIN	57	2.12	.
880609	PM	882992	CHIN	51	1.60	.
880609	PM	882993	CHIN	53	1.66	.
880609	PM	882994	CHIN	52	1.48	.
880609	PM	882995	CHIN	50	1.30	.
880609	PM	882996	CHIN	51	1.48	.
880609	PM	882997	CHIN	52	1.50	.
880609	PM	882998	CHIN	42	0.80	.
880609	PM	882999	CHIN	46	0.90	.
880609	PM	883000	CHIN	46	1.06	.
880609	PM	883001	CHIN	39	0.56	.
880609	PM	883002	CHIN	34	0.38	.
880609	PP	880098	CHIN	82	5.62	H
880609	PP	880099	CHIN	78	5.28	H
880609	PP	883018	CHIN	41	0.62	.
880609	PP	883019	CHIN	35	0.36	.
880609	PP	883015	CHUM	40	0.48	.
880609	PP	883016	CHUM	36	0.42	.
880609	PP	883017	SOCK	43	0.74	.
880616	PA	883024	CHIN	45	0.94	.
880616	PA	883025	CHIN	49	1.38	.
880616	PA	883026	CHIN	43	0.66	.
880616	PA	883027	CHIN	38	0.46	.
880616	PA	883030	CHUM	26	0.08	.
880616	PA	883028	SOCK	37	0.38	.
880616	PA	883029	SOCK	36	0.36	.

Fraser River Beach Seine Data - 1988
Length - Weight Data From Juvenile Salmonids
Specimens Preserved in Formaldehyde

DATE	SITE	IDNUM	SPECIES	LENGTH	WEIGHT	ORIGIN
880616	PB	883039	CHIN	68	3.76	.
880616	PB	883040	CHIN	61	2.52	.
880616	PB	883041	CHIN	52	1.48	.
880616	PB	883042	CHIN	50	1.42	.
880616	PB	883043	CHIN	54	1.78	.
880616	PB	883044	CHIN	71	3.90	.
880616	PB	883045	CHIN	39	0.52	.
880616	PB	883047	CHUM	42	0.64	.
880616	PB	883048	CHUM	43	0.58	.
880616	PB	883049	CHUM	38	0.48	.
880616	PB	883050	CHUM	28	0.24	.
880616	PB	883046	COHO	50	1.42	.
880616	PM	880101	CHIN	103	12.58	H
880616	PM	880102	CHIN	75	4.46	H
880616	PM	883031	CHIN	91	8.72	.
880616	PM	883032	CHIN	87	7.02	.
880616	PM	883033	CHIN	60	2.58	.
880616	PM	883034	CHIN	53	1.76	.
880616	PM	883035	CHIN	55	1.78	.
880616	PM	883036	CHIN	40	0.68	.
880616	PM	883037	CHIN	49	1.12	.
880616	PM	883038	SOCK	34	0.34	.
880616	PP	880100	CHIN	75	5.14	H
880616	PP	883051	CHIN	78	5.46	.
880616	PP	883052	CHIN	56	2.06	.
880616	PP	883053	CHIN	62	2.70	.
880616	PP	883054	CHIN	60	2.38	.
880616	PP	883055	CHIN	45	0.92	.
880616	PP	883056	CHIN	43	0.74	.
880616	PP	883057	CHIN	37	0.46	.
880616	PP	883059	CHUM	35	0.32	.
880616	PP	883058	SOCK	47	0.92	.
880616	RL	883060	CHIN	89	8.10	.
880616	RL	883061	CHIN	54	1.68	.
880616	RL	883062	CHIN	60	2.42	.
880616	RL	883063	CHIN	68	3.12	.
880616	RL	883064	CHIN	54	1.80	.
880616	RL	883065	CHIN	57	1.78	.
880616	RL	883070	CHUM	34	0.30	.
880616	RL	883071	CHUM	35	0.32	.
880616	RL	883066	SOCK	44	0.84	.
880616	RL	883067	SOCK	45	0.98	.
880616	RL	883068	SOCK	49	1.04	.
880616	RL	883069	SOCK	44	0.84	.
880621	PA	883084	CHIN	69	3.74	.
880621	PA	883085	CHIN	53	1.64	.
880621	PB	883086	CHIN	75	5.16	.
880621	PB	883087	CHIN	59	2.18	.

Fraser River Beach Seine Data - 1988
Length - Weight Data From Juvenile Salmonids
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DATE	SITE	IDNUM	SPECIES	LENGTH	WEIGHT	ORIGIN
880621	PB	883088	CHIN	54	1.84	.
880621	PB	883089	CHIN	51	1.52	.
880621	PB	883090	CHIN	48	0.82	.
880621	PM	883072	CHIN	76	4.90	.
880621	PM	883073	CHIN	58	2.20	.
880621	PM	883074	CHIN	59	2.36	.
880621	PM	883075	CHIN	51	1.64	.
880621	PM	883076	CHIN	50	1.20	.
880621	PM	883077	CHIN	51	1.32	.
880621	PM	883078	CHIN	53	1.50	.
880621	PM	883079	CHIN	43	0.82	.
880621	PM	883080	CHIN	42	0.70	.
880621	PM	883081	CHIN	47	0.94	.
880621	PM	883082	CHIN	44	0.82	.
880621	PM	883083	SOCK	53	1.32	.
880630	PA	883091	CHIN	64	3.42	.
880630	PA	883092	SOCK	38	0.56	.
880706	PA	883114	CHIN	84	7.98	.
880706	PA	883115	CHIN	80	7.30	.
880706	PA	883116	CHIN	73	6.12	.
880706	PA	883117	CHIN	72	4.70	.
880706	PA	883118	CHIN	73	5.30	.
880706	PA	883119	CHIN	62	2.82	.
880706	PA	883120	CHIN	58	2.56	.
880706	PA	883121	CHIN	51	1.66	.
880706	PA	883122	CHIN	51	1.86	.
880706	PA	883123	CHIN	55	2.26	.
880706	PA	883124	CHIN	63	3.12	.
880706	PA	883125	CHIN	52	1.96	.
880706	PB	883108	CHIN	80	5.56	.
880706	PB	883109	CHIN	69	3.38	.
880706	PB	883110	CHIN	72	4.32	.
880706	PB	883111	CHIN	71	4.28	.
880706	PB	883112	CHIN	53	1.74	.
880706	PB	883113	SOCK	40	0.58	.
880706	PM	883126	CHIN	80	5.66	.
880706	PM	883127	CHIN	79	6.10	.
880706	PM	883128	CHIN	79	6.14	.
880706	PM	883129	CHIN	79	6.70	.
880706	PM	883130	CHIN	60	2.48	.
880706	PM	883131	CHIN	62	3.08	.
880706	PM	883132	CHIN	74	4.88	.
880706	PM	883133	CHIN	68	3.88	.
880706	PM	883134	CHIN	67	4.12	.
880706	PM	883135	CHIN	66	3.46	.
880706	PM	883136	CHIN	59	2.46	.
880706	PM	883137	CHIN	61	2.54	.
880706	PM	883138	CHIN	68	3.76	.

Fraser River Beach Seine Data - 1988
Length - Weight Data From Juvenile Salmonids
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DATE	SITE	IDNUM	SPECIES	LENGTH	WEIGHT	ORIGIN
880706	PM	883139	CHIN	57	2.26	.
880706	PM	883140	CHIN	56	2.04	.
880706	PM	883141	CHIN	57	2.32	.
880706	PM	883142	CHIN	58	2.20	.
880706	PM	883143	SOCK	55	1.58	.
880706	PM	883144	SOCK	67	2.86	.
880706	PM	883145	SOCK	57	1.84	.
880706	PM	883146	SOCK	56	2.02	.
880706	PM	883147	SOCK	62	2.38	.
880706	PM	883148	SOCK	52	1.34	.
880706	PM	883149	SOCK	60	2.24	.
880706	PM	883150	SOCK	49	1.26	.
880706	PM	883151	SOCK	49	1.36	.
880706	PM	883152	SOCK	51	1.36	.
880706	PM	883153	SOCK	44	0.82	.
880706	PM	883154	SOCK	50	1.26	.
880706	PP	883107	CHIN	84	6.52	.
880706	PP	883106	SOCK	70	2.98	.
880706	RL	883093	CHIN	97	12.50	.
880706	RL	883094	CHIN	89	9.14	.
880706	RL	883095	CHIN	60	3.30	.
880706	RL	883096	CHIN	59	2.74	.
880706	RL	883097	CHIN	65	3.60	.
880706	RL	883098	SOCK	56	1.96	.
880706	RL	883099	SOCK	56	1.92	.
880706	RL	883100	SOCK	55	1.84	.
880706	RL	883101	SOCK	62	2.70	.
880706	RL	883102	SOCK	53	1.52	.
880706	RL	883103	SOCK	48	1.28	.
880706	RL	883104	SOCK	53	1.82	.
880706	RL	883105	SOCK	42	0.94	.
880720	CH	883203	CHIN	69	3.68	.
880720	CH	883204	SOCK	55	2.18	.
880720	CH	883205	SOCK	60	2.06	.
880720	CH	883206	SOCK	52	1.62	.
880720	CH	883207	SOCK	58	2.14	.
880720	CH	883208	SOCK	53	1.62	.
880720	CH	883209	SOCK	54	1.66	.
880720	CH	883210	SOCK	53	1.56	.
880720	CH	883211	SOCK	50	1.18	.
880720	CH	883212	SOCK	56	1.74	.
880720	CH	883213	SOCK	53	1.36	.
880720	PA	883176	CHIN	59	2.26	.
880720	PA	883177	CHIN	51	1.58	.
880720	PA	883178	SOCK	45	0.98	.
880720	PA	883179	SOCK	55	1.58	.
880720	PA	883180	SOCK	57	1.82	.
880720	PA	883181	SOCK	43	0.90	.

Fraser River Beach Seine Data - 1988
Length - Weight Data From Juvenile Salmonids
Specimens Preserved in Formaldehyde

DATE	SITE	IDNUM	SPECIES	LENGTH	WEIGHT	ORIGIN
880720	PB	883172	CHIN	74	4.68	.
880720	PB	883173	SOCK	64	2.60	.
880720	PB	883174	SOCK	56	1.80	.
880720	PB	883175	SOCK	38	0.48	.
880720	PM	883182	CHIN	84	6.70	.
880720	PM	883183	CHIN	79	6.10	.
880720	PM	883184	CHIN	84	7.06	.
880720	PM	883185	CHIN	78	5.86	.
880720	PM	883186	CHIN	79	6.00	.
880720	PM	883187	CHIN	81	6.96	.
880720	PM	883188	CHIN	78	5.26	.
880720	PM	883189	CHIN	73	4.98	.
880720	PM	883190	CHIN	79	5.66	.
880720	PM	883191	CHIN	60	2.78	.
880720	PM	883192	CHIN	61	2.74	.
880720	PM	883202	RAIN	85	6.60	.
880720	PM	883193	SOCK	59	2.14	.
880720	PM	883194	SOCK	53	1.44	.
880720	PM	883195	SOCK	62	2.36	.
880720	PM	883196	SOCK	61	2.22	.
880720	PM	883197	SOCK	64	2.48	.
880720	PM	883198	SOCK	60	2.18	.
880720	PM	883199	SOCK	58	1.76	.
880720	PM	883200	SOCK	51	1.14	.
880720	PM	883201	SOCK	62	2.12	.
880720	PP	883167	CHIN	61	2.88	.
880720	PP	883168	SOCK	53	1.72	.
880720	PP	883169	SOCK	62	2.24	.
880720	PP	883170	SOCK	58	2.12	.
880720	PP	883171	SOCK	58	1.98	.
880720	RL	883155	CHIN	74	4.66	.
880720	RL	883156	CHIN	70	4.30	.
880720	RL	883157	CHIN	77	5.36	.
880720	RL	883158	CHIN	81	6.24	.
880720	RL	883159	CHIN	68	3.86	.
880720	RL	883160	CHIN	75	4.74	.
880720	RL	883161	CHIN	80	5.92	.
880720	RL	883162	CHIN	72	4.36	.
880720	RL	883163	CHIN	62	2.96	.
880720	RL	883164	CHIN	71	4.40	.
880720	RL	883165	SOCK	49	1.22	.
880720	RL	883166	SOCK	47	0.96	.
880804	CH	883219	SOCK	62	2.48	.
880804	CH	883220	SOCK	59	2.12	.
880804	CH	883221	SOCK	55	1.88	.
880804	CH	883222	SOCK	56	1.70	.
880804	PA	883230	CHIN	93	9.50	.
880804	PA	883231	CHIN	70	4.28	.

Fraser River Beach Seine Data - 1988
Length - Weight Data From Juvenile Salmonids
Specimens Preserved in Formaldehyde

DATE	SITE	IDNUM	SPECIES	LENGTH	WEIGHT	ORIGIN
880804	PA	883232	SOCK	65	3.10	.
880804	PA	883233	SOCK	52	1.38	.
880804	PA	883234	SOCK	55	1.62	.
880804	PA	883235	SOCK	55	1.98	.
880804	PA	883236	SOCK	50	1.26	.
880804	PB	883229	SOCK	58	2.02	.
880804	PM	883237	CHIN	89	8.86	.
880804	PM	883238	CHIN	72	4.60	.
880804	PM	883239	SOCK	60	2.00	.
880804	PM	883240	SOCK	57	1.98	.
880804	PP	883223	CHIN	98	11.80	.
880804	PP	883224	SOCK	63	2.50	.
880804	PP	883225	SOCK	62	2.76	.
880804	PP	883226	SOCK	55	1.62	.
880804	PP	883227	SOCK	56	1.78	.
880804	PP	883228	SOCK	52	1.54	.
880804	RL	883214	CHIN	78	5.78	.
880804	RL	883215	SOCK	58	1.98	.
880804	RL	883216	SOCK	60	2.34	.
880804	RL	883217	SOCK	53	1.52	.
880804	RL	883218	SOCK	58	2.02	.
880817	PA	883245	SOCK	68	3.32	.
880817	PA	883246	SOCK	60	2.08	.
880817	PA	883247	SOCK	69	3.20	.
880817	PA	883248	SOCK	65	2.98	.
880817	PA	883249	SOCK	56	1.58	.
880817	PA	883250	SOCK	43	0.80	.
880817	PM	883251	SOCK	64	2.56	.
880817	PP	883243	SOCK	64	2.90	.
880817	PP	883244	SOCK	58	2.02	.
880817	RL	883241	CHIN	70	3.62	.
880817	RL	883242	SOCK	71	4.16	.
880830	RL	883252	SOCK	80	6.36	.

Table 5. Length data (mm) from live fish sampled from the Fraser River by beach seine during 1988.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880526	PA	1	1406	CHIN	77	H
880526	PA	1	1406	CHIN	72	.
880526	PA	1	1406	COHO	92	.
880526	PA	1	1406	COHO	123	.
880526	PA	1	1406	COHO	127	.
880526	PA	1	1406	COHO	96	.
880526	PA	1	1406	COHO	44	.
880526	PA	1	1406	CUTT	210	.
880526	PA	3	1434	CHIN	42	.
880526	PA	3	1434	PINK	32	.
880526	PB	1	1127	CHIN	84	.
880526	PB	1	1127	CHIN	121	.
880526	PB	1	1127	CHIN	84	.
880526	PB	1	1127	CHIN	87	.
880526	PB	1	1127	CHIN	74	.
880526	PB	1	1127	CHIN	75	H
880526	PB	1	1127	CHIN	72	H
880526	PB	1	1127	CHIN	91	.
880526	PB	1	1127	CHIN	90	.
880526	PB	1	1127	CHIN	71	.
880526	PB	1	1127	CHIN	86	.
880526	PB	1	1127	CHIN	87	.
880526	PB	1	1127	CHIN	73	.
880526	PB	1	1127	CHIN	72	.
880526	PB	1	1127	CHIN	72	H
880526	PB	1	1127	CHIN	81	.
880526	PB	1	1127	CHIN	85	.
880526	PB	1	1127	CHIN	76	.
880526	PB	1	1127	CHIN	85	.
880526	PB	1	1127	CHIN	84	.
880526	PB	1	1127	CHIN	68	.
880526	PB	1	1127	CHIN	41	.
880526	PB	1	1127	CHIN	45	.
880526	PB	1	1127	CHIN	48	.
880526	PB	1	1127	CHIN	57	.
880526	PB	1	1127	CHIN	54	.
880526	PB	1	1127	CHIN	45	.
880526	PB	1	1127	CHIN	55	.
880526	PB	1	1127	COHO	82	.
880526	PB	1	1127	COHO	120	.
880526	PB	1	1127	COHO	114	.
880526	PB	1	1127	COHO	85	.
880526	PB	1	1127	COHO	132	.
880526	PB	1	1127	COHO	151	.
880526	PB	1	1127	COHO	128	.
880526	PB	1	1127	COHO	111	.
880526	PB	1	1127	COHO	117	.
880526	PB	1	1127	COHO	85	.
880526	PB	1	1127	COHO	87	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880526	PB	1	1127	SOCK	80	.
880526	PB	1	1127	SOCK	68	.
880526	PB	1	1127	SOCK	68	.
880526	PB	2	1132	CHIN	91	.
880526	PB	2	1132	CHIN	85	.
880526	PB	2	1132	CHIN	73	.
880526	PB	2	1132	CHIN	65	.
880526	PB	2	1132	COHO	127	.
880526	PB	2	1132	COHO	81	.
880526	PB	2	1132	COHO	79	.
880526	PB	3	1140	CHIN	55	.
880526	PB	3	1140	CHIN	58	.
880526	PB	3	1140	COHO	120	.
880526	PP	1	1051	CHIN	94	.
880526	PP	1	1051	CHIN	91	.
880526	PP	1	1051	CHIN	76	.
880526	PP	1	1051	CHIN	89	.
880526	PP	1	1051	CHIN	82	.
880526	PP	1	1051	CHIN	78	.
880526	PP	1	1051	CHIN	45	.
880526	PP	1	1051	CHIN	48	.
880526	PP	1	1051	CHIN	52	.
880526	PP	1	1051	CHIN	41	.
880526	PP	1	1051	CHIN	43	.
880526	PP	1	1051	COHO	86	.
880526	PP	1	1051	COHO	128	.
880526	PP	1	1051	COHO	120	.
880526	PP	1	1051	COHO	122	.
880526	PP	1	1051	COHO	140	.
880526	PP	1	1051	COHO	137	.
880526	PP	2	1055	CHIN	78	.
880526	PP	2	1055	CHIN	86	.
880526	PP	2	1055	CHIN	73	.
880526	PP	2	1055	CHIN	76	.
880526	PP	3	1106	CHUM	38	.
880526	RL	1	1012	CHIN	89	.
880526	RL	1	1012	CHIN	85	.
880526	RL	1	1012	CHIN	83	.
880526	RL	1	1012	CHIN	89	.
880526	RL	1	1012	CHIN	44	.
880526	RL	1	1012	COHO	122	.
880526	RL	1	1012	COHO	132	.
880526	RL	1	1012	COHO	93	.
880526	RL	2	1017	CHIN	83	.
880526	RL	2	1017	CHIN	84	.
880526	RL	3	1021	CHIN	92	.
880526	RL	3	1021	CHIN	39	.
880526	RL	3	1021	COHO	137	.
880526	RL	3	1021	COHO	97	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880526	RL	3	1021	SOCK	77	.
880527	PA	1	1240	CHIN	102	.
880527	PA	1	1240	CHIN	81	H
880527	PA	1	1240	CHIN	84	.
880527	PA	1	1240	CHIN	99	.
880527	PA	1	1240	CHIN	79	.
880527	PA	1	1240	CHIN	97	.
880527	PA	1	1240	CHIN	90	.
880527	PA	1	1240	CHIN	82	.
880527	PA	1	1240	CHIN	89	.
880527	PA	1	1240	CHIN	52	.
880527	PA	1	1240	COHO	85	.
880527	PA	1	1240	COHO	94	.
880527	PA	1	1240	DOLL	400	.
880527	PB	1	1340	CHIN	96	.
880527	PB	1	1340	CHIN	91	.
880527	PB	1	1340	CHIN	129	.
880527	PB	1	1340	CHIN	81	.
880527	PB	1	1340	CHIN	125	.
880527	PB	1	1340	CHIN	79	.
880527	PB	1	1340	CHIN	89	.
880527	PB	1	1340	CHIN	86	.
880527	PB	1	1340	CHIN	79	.
880527	PB	1	1340	CHIN	104	.
880527	PB	1	1340	CHIN	73	.
880527	PB	1	1340	CHIN	76	.
880527	PB	1	1340	CHIN	79	.
880527	PB	1	1340	CHIN	84	.
880527	PB	1	1340	CHIN	96	.
880527	PB	1	1340	CHIN	117	.
880527	PB	1	1340	CHIN	79	.
880527	PB	1	1340	CHIN	43	.
880527	PB	1	1340	COHO	130	.
880527	PB	1	1340	COHO	108	.
880527	PB	1	1340	COHO	110	.
880527	PB	1	1340	COHO	136	.
880527	PB	2	1345	CHIN	40	.
880527	PM	1	1133	CHIN	117	.
880527	PM	1	1133	CHIN	92	.
880527	PM	1	1133	CHIN	126	.
880527	PM	1	1133	CHIN	138	.
880527	PM	1	1133	CHIN	101	.
880527	PM	1	1133	CHIN	88	.
880527	PM	1	1133	CHIN	121	.
880527	PM	1	1133	CHIN	91	.
880527	PM	1	1133	CHIN	86	.
880527	PM	1	1133	CHIN	83	.
880527	PM	1	1133	CHIN	124	.
880527	PM	1	1133	CHIN	116	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880527	PM	1	1133	CHIN	91	.
880527	PM	1	1133	CHIN	138	.
880527	PM	1	1133	CHIN	98	.
880527	PM	1	1133	CHIN	88	.
880527	PM	1	1133	CHIN	80	.
880527	PM	1	1133	CHIN	87	.
880527	PM	1	1133	CHIN	87	.
880527	PM	1	1133	CHIN	82	.
880527	PM	1	1133	CHIN	86	.
880527	PM	1	1133	CHIN	93	.
880527	PM	1	1133	CHIN	89	.
880527	PM	1	1133	CHIN	87	.
880527	PM	1	1133	CHIN	49	.
880527	PM	1	1133	CHIN	56	.
880527	PM	1	1133	COHO	138	.
880527	PM	1	1133	COHO	111	.
880527	PM	1	1133	COHO	113	.
880527	PP	1	1440	CHIN	96	.
880527	PP	1	1440	CHIN	92	.
880527	PP	1	1440	CHIN	82	.
880527	PP	1	1440	CHIN	92	.
880527	PP	1	1440	CHIN	78	.
880527	PP	1	1440	CHIN	88	.
880527	PP	1	1440	CHIN	75	.
880527	PP	1	1440	CHIN	100	.
880527	PP	1	1440	CHIN	78	.
880527	PP	1	1440	CHIN	78	.
880527	PP	1	1440	CHIN	103	.
880527	PP	1	1440	CHIN	66	.
880527	PP	1	1440	CHIN	43	.
880527	PP	1	1440	CHIN	46	.
880527	PP	1	1440	RAIN	259	.
880527	PP	1	1440	RAIN	224	.
880527	RL	1	1545	CHIN	88	.
880527	RL	1	1545	CHIN	84	.
880527	RL	1	1545	CHIN	77	.
880527	RL	1	1545	CHIN	85	.
880527	RL	1	1545	CHIN	98	.
880527	RL	1	1545	CHIN	87	H
880527	RL	1	1545	CHIN	95	.
880527	RL	1	1545	CHIN	102	.
880527	RL	1	1545	CHIN	91	.
880527	RL	1	1545	CHIN	89	.
880527	RL	1	1545	CHIN	76	.
880527	RL	1	1545	CHIN	83	.
880527	RL	1	1545	CHIN	72	.
880527	RL	1	1545	CHIN	47	.
880527	RL	1	1545	CHIN	64	.
880527	RL	1	1545	COHO	92	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880527	RL	1	1545	COHO	80	.
880527	RL	1	1545	COHO	85	.
880527	RL	1	1545	COHO	89	.
880527	RL	2	1551	DOLL	375	.
880531	PA	1	1045	CHIN	80	.
880531	PA	1	1045	CHIN	74	H
880531	PA	1	1045	CHIN	70	.
880531	PB	1	955	CHIN	82	.
880531	PB	1	955	CHIN	75	.
880531	PB	1	955	CHIN	85	.
880531	PB	1	955	CHIN	74	.
880531	PB	1	955	CHIN	95	.
880531	PB	1	955	CHIN	89	.
880531	PB	1	955	CHIN	74	.
880531	PB	1	955	CHIN	84	.
880531	PB	1	955	COHO	82	.
880531	PB	2	1000	CHIN	67	.
880531	PB	2	1000	CHIN	88	.
880531	PB	2	1000	CHIN	80	.
880531	PB	2	1000	CHIN	84	.
880531	PB	2	1000	CHIN	74	.
880531	PB	2	1000	COHO	70	.
880531	PB	2	1000	COHO	88	.
880531	PB	3	1005	CHIN	100	.
880531	PB	3	1005	CHIN	86	.
880531	PM	1	1130	CHIN	94	.
880531	PM	1	1130	CHIN	86	.
880531	PM	1	1130	CHIN	97	.
880531	PM	1	1130	CHIN	95	.
880531	PM	1	1130	CHIN	94	.
880531	PM	1	1130	CHIN	79	.
880531	PM	1	1130	CHIN	78	.
880531	PM	1	1130	CHIN	91	.
880531	PM	1	1130	CHIN	85	.
880531	PM	1	1130	CHIN	74	.
880531	PM	1	1130	CHIN	80	.
880531	PM	1	1130	CHIN	78	.
880531	PM	1	1130	CHIN	81	.
880531	PM	1	1130	CHIN	93	.
880531	PM	1	1130	CHIN	86	.
880531	PM	1	1130	CHIN	93	.
880531	PM	1	1130	CHIN	81	.
880531	PM	1	1130	CHIN	80	.
880531	PM	1	1130	CHIN	85	.
880531	PM	1	1130	CHIN	130	.
880531	PM	1	1130	CHIN	74	.
880531	PM	1	1130	CHIN	58	.
880531	PM	1	1130	CHIN	79	.
880531	PM	1	1130	CHIN	78	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880531	PM	1	1130	CHIN	82	.
880531	PM	1	1130	CHIN	91	.
880531	PM	1	1130	CHIN	87	.
880531	PM	1	1130	CHIN	87	.
880531	PM	1	1130	CHIN	78	.
880531	PM	1	1130	CHIN	98	.
880531	PM	1	1130	CHIN	83	.
880531	PM	1	1130	CHIN	86	.
880531	PM	1	1130	CHIN	90	.
880531	PM	1	1130	CHIN	82	.
880531	PM	1	1130	CHIN	74	.
880531	PM	1	1130	CHIN	80	.
880531	PM	1	1130	CHIN	84	.
880531	PM	1	1130	CHIN	86	.
880531	PM	1	1130	CHIN	82	.
880531	PM	1	1130	CHIN	100	.
880531	PM	1	1130	CHIN	90	.
880531	PM	1	1130	CHIN	91	.
880531	PM	1	1130	CUTT	181	.
880531	PM	1	1130	CUTT	179	H
880531	PM	1	1130	CUTT	198	H
880531	PM	1	1130	RAIN	212	.
880531	PP	1	915	CHIN	98	.
880531	PP	1	915	COHO	78	.
880531	RL	1	840	CHIN	101	.
880531	RL	1	840	CHIN	88	.
880531	RL	1	840	CHIN	92	.
880531	RL	1	840	CHIN	93	.
880531	RL	1	840	CHIN	98	.
880531	RL	1	840	COHO	83	.
880531	RL	3	850	CHIN	94	.
880531	RL	3	850	CHIN	93	.
880531	RL	3	850	COHO	78	.
880531	RL	3	850	COHO	95	.
880602	PA	1	1650	CHIN	80	.
880602	PA	1	1650	CHIN	77	.
880602	PA	1	1650	CHIN	82	.
880602	PA	3	1700	CHIN	78	.
880602	PB	1	1550	CHIN	72	.
880602	PB	1	1550	CHIN	60	.
880602	PB	1	1550	COHO	94	.
880602	PB	1	1550	COHO	96	.
880602	PB	1	1550	COHO	50	.
880602	PB	1	1550	COHO	49	.
880602	PB	2	1555	CHIN	105	.
880602	PB	2	1555	CHIN	98	.
880602	PB	2	1555	CHIN	74	.
880602	PB	2	1555	COHO	52	.
880602	PB	3	1600	CHIN	79	H

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880602	PM	1	1740	CHIN	56	.
880602	PM	1	1740	CHIN	60	.
880602	PM	1	1740	CHIN	135	.
880602	PM	1	1740	CHIN	144	.
880602	PM	1	1740	CHIN	94	.
880602	PM	1	1740	CHIN	77	.
880602	PM	1	1740	CHIN	89	.
880602	PM	1	1740	CHIN	80	.
880602	PM	1	1740	CHIN	84	.
880602	PM	1	1740	CHIN	85	.
880602	PM	1	1740	CHIN	82	.
880602	PM	1	1740	CHIN	81	.
880602	PM	1	1740	CHIN	81	.
880602	PM	1	1740	CHIN	79	.
880602	PM	1	1740	CHIN	74	.
880602	PM	1	1740	CHIN	71	.
880602	PM	1	1740	CHIN	81	.
880602	PM	1	1740	CHIN	89	.
880602	PM	1	1740	CHIN	87	.
880602	PM	1	1740	CHIN	77	.
880602	PM	1	1740	CHIN	98	.
880602	PM	1	1740	CHIN	90	.
880602	PM	1	1740	COHO	122	.
880602	PM	1	1740	COHO	118	.
880602	PM	1	1740	CUTT	205	.
880602	PM	1	1740	RAIN	181	H
880602	PM	2	1745	RAIN	234	H
880602	PP	1	1510	CHIN	78	.
880602	PP	1	1510	CHIN	88	.
880602	PP	1	1510	CHIN	78	.
880602	PP	1	1510	CHIN	80	.
880602	PP	2	1515	CHIN	89	.
880602	PP	2	1515	CHIN	74	.
880602	PP	3	1520	CHIN	77	.
880602	RL	1	1345	CHIN	83	.
880602	RL	1	1345	CHIN	61	.
880602	RL	1	1345	CHIN	99	.
880602	RL	1	1345	CHIN	78	.
880602	RL	1	1345	CHIN	89	.
880602	RL	1	1345	CHIN	81	H
880602	RL	1	1345	CHIN	77	.
880602	RL	1	1345	CHIN	83	.
880602	RL	1	1345	CHIN	77	.
880602	RL	2	1350	CHIN	95	.
880602	RL	2	1350	CHIN	78	.
880602	RL	2	1350	CHIN	84	.
880602	RL	2	1350	CHIN	85	.
880602	RL	2	1350	CHIN	84	.
880602	RL	3	1355	CHIN	91	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880607	PA	1	1612	CHIN	105	H
880607	PA	1	1612	CHIN	77	H
880607	PA	1	1612	CHIN	92	.
880607	PA	1	1612	CHIN	60	.
880607	PA	1	1612	CHIN	91	.
880607	PA	1	1612	CHIN	45	.
880607	PA	1	1612	CHIN	40	.
880607	PA	1	1612	DOLL	335	.
880607	PA	2	1616	CHIN	79	.
880607	PA	2	1616	CHIN	48	.
880607	PA	3	1621	CHIN	97	.
880607	PB	1	1520	CHIN	69	.
880607	PB	1	1520	CHIN	91	.
880607	PB	1	1520	CHIN	55	.
880607	PB	1	1520	CHIN	49	.
880607	PB	1	1520	CHIN	57	.
880607	PB	1	1520	CHIN	59	.
880607	PB	1	1520	CHIN	52	.
880607	PB	2	1525	CHIN	90	.
880607	PB	2	1525	CHIN	71	.
880607	PB	2	1525	CHIN	54	.
880607	PB	2	1525	CHIN	58	.
880607	PB	2	1525	CHIN	60	.
880607	PB	3	1530	CHIN	78	.
880607	PB	3	1530	CHIN	55	.
880607	PM	1	1710	CHIN	89	.
880607	PM	1	1710	CHIN	87	.
880607	PM	1	1710	CHIN	81	.
880607	PM	1	1710	CHIN	86	.
880607	PM	1	1710	CHIN	82	.
880607	PM	1	1710	CHIN	83	.
880607	PM	1	1710	CHIN	75	.
880607	PM	1	1710	CHIN	92	.
880607	PM	1	1710	CHIN	88	.
880607	PM	1	1710	CHIN	87	H
880607	PM	1	1710	CHIN	88	.
880607	PM	1	1710	CHIN	76	.
880607	PM	1	1710	CHIN	94	.
880607	PM	1	1710	CHIN	91	.
880607	PM	1	1710	CHIN	97	.
880607	PM	1	1710	CHIN	96	.
880607	PM	1	1710	CHIN	77	.
880607	PM	1	1710	CHIN	87	.
880607	PM	1	1710	CHIN	97	.
880607	PM	1	1710	CHIN	89	.
880607	PM	1	1710	CHIN	84	.
880607	PM	1	1710	CHIN	77	.
880607	PM	1	1710	CHIN	107	.
880607	PM	1	1710	CHIN	99	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880607	PM	1	1710	CHIN	99	.
880607	PM	1	1710	CHIN	84	H
880607	PM	1	1710	CHIN	97	H
880607	PM	1	1710	CHIN	82	.
880607	PM	1	1710	CHIN	78	.
880607	PM	1	1710	CHIN	88	.
880607	PM	1	1710	CHIN	62	.
880607	PM	1	1710	CHIN	44	.
880607	PM	1	1710	CHIN	45	.
880607	PM	1	1710	CHIN	92	H
880607	PM	1	1710	CHIN	89	.
880607	PM	1	1710	CHIN	90	.
880607	PM	1	1710	CHIN	90	.
880607	PM	1	1710	CHIN	87	.
880607	PM	1	1710	CHIN	90	.
880607	PM	1	1710	CHIN	78	.
880607	PM	1	1710	CHIN	74	.
880607	PM	1	1710	COHO	143	.
880607	PM	1	1710	COHO	137	.
880607	PM	1	1710	COHO	87	.
880607	PM	1	1710	COHO	107	.
880607	PM	1	1710	COHO	62	.
880607	PM	1	1710	COHO	42	.
880607	PM	1	1710	COHO	89	H
880607	PM	1	1710	COHO	86	.
880607	PM	1	1710	COHO	94	.
880607	PM	1	1710	COHO	85	.
880607	PM	1	1710	COHO	106	.
880607	PM	1	1710	COHO	64	.
880607	PM	2	1715	RAIN	211	H
880607	PM	3	1720	RAIN	235	H
880607	PM	3	1720	RAIN	226	.
880607	PP	1	1440	CHIN	81	.
880607	PP	1	1440	CHIN	71	.
880607	PP	1	1440	CHIN	78	.
880607	PP	1	1440	DOLL	197	.
880607	PP	2	1444	CHIN	86	.
880607	PP	2	1444	CHIN	74	.
880607	PP	2	1444	CHIN	56	.
880607	PP	2	1444	CHIN	59	.
880607	PP	3	1448	CHIN	94	.
880607	PP	3	1448	COHO	116	.
880607	RL	1	1404	CHIN	96	.
880607	RL	2	1408	CHIN	82	.
880607	RL	2	1408	CHIN	57	.
880607	RL	2	1408	CHIN	51	.
880607	RL	2	1408	CHIN	52	.
880607	RL	2	1408	COHO	94	.
880607	RL	3	1412	CHIN	52	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880609	CH	1	1215	CHIN	88	.
880609	CH	1	1215	CHIN	101	.
880609	CH	2	1220	CHIN	83	.
880609	CH	2	1220	CHIN	78	.
880609	CH	2	1220	CHIN	92	.
880609	CH	2	1220	CHIN	78	.
880609	CH	3	1230	CHIN	77	.
880609	PA	1	1000	CHIN	82	.
880609	PA	1	1000	CHIN	80	.
880609	PA	1	1000	CHIN	86	.
880609	PM	1	855	CHIN	91	.
880609	PM	1	855	CHIN	87	.
880609	PM	1	855	CHIN	98	.
880609	PM	1	855	CHIN	86	.
880609	PM	1	855	CHIN	74	.
880609	PM	1	855	CHIN	84	.
880609	PM	1	855	CHIN	91	.
880609	PM	1	855	CHIN	71	.
880609	PM	1	855	CHIN	70	.
880609	PM	1	855	CHIN	92	H
880609	PM	1	855	CHIN	98	H
880609	PM	1	855	CHIN	93	.
880609	PM	1	855	CHIN	89	.
880609	PM	1	855	CHIN	88	.
880609	PM	1	855	CHIN	98	.
880609	PM	1	855	CHIN	89	.
880609	PM	1	855	CHIN	92	.
880609	PM	1	855	CHIN	106	.
880609	PM	1	855	CHIN	77	.
880609	PM	1	855	CHIN	67	.
880609	PM	1	855	CHIN	91	.
880609	PM	1	855	CHIN	95	.
880609	PM	1	855	CHIN	91	.
880609	PM	1	855	CHIN	73	.
880609	PM	1	855	CHIN	99	.
880609	PM	1	855	COHO	77	.
880609	PM	1	855	COHO	89	.
880609	PM	2	905	CHIN	95	.
880609	PM	2	905	CHIN	92	.
880609	PM	2	905	CHIN	99	H
880609	PM	2	905	CHIN	110	.
880609	PM	2	905	CHIN	80	.
880609	PM	2	905	CHIN	88	.
880609	PM	2	905	CHIN	148	.
880609	PM	2	905	CHIN	80	.
880609	PM	2	905	CHIN	88	.
880609	PM	2	905	CHIN	93	.
880609	PM	3	915	CHIN	95	.
880609	PM	3	915	CHIN	85	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880609	PM	3	915	CHIN	100	H
880609	PM	3	915	CHIN	131	.
880609	PM	3	915	CHIN	93	.
880609	PM	3	915	CHIN	100	.
880609	PM	3	915	CHIN	105	.
880609	PM	3	915	RAIN	190	H
880609	PP	1	1145	CHIN	87	.
880609	PP	1	1145	CHIN	87	H
880609	PP	2	1155	CHIN	78	.
880609	PP	3	1200	CHIN	73	.
880616	PB	1	1655	CHIN	58	.
880616	PB	1	1655	CHIN	54	.
880616	PB	1	1655	CHIN	59	.
880616	PB	1	1655	CHIN	55	.
880616	PB	1	1655	CHIN	61	.
880616	PB	1	1655	CHIN	75	.
880616	PB	1	1655	COHO	52	.
880616	PB	2	1700	CHIN	51	.
880616	PB	2	1700	CHIN	58	.
880616	PB	2	1700	CHIN	60	.
880616	PB	2	1700	CHIN	62	.
880616	PB	3	1705	CHIN	54	.
880616	PB	3	1705	CHIN	72	.
880616	PM	1	1610	CHIN	96	.
880616	PM	1	1610	CHIN	85	.
880616	PM	1	1610	CHIN	161	.
880616	PM	1	1610	CHIN	98	.
880616	PM	1	1610	CHIN	108	H
880616	PM	1	1610	CHIN	106	.
880616	PM	1	1610	CHIN	148	.
880616	PM	1	1610	CHIN	91	.
880616	PM	1	1610	CHIN	111	.
880616	PM	1	1610	CHIN	91	.
880616	PM	1	1610	CHIN	81	.
880616	PM	1	1610	CHIN	81	.
880616	PM	1	1610	CHIN	78	H
880616	PM	1	1610	CHIN	82	.
880616	PM	1	1610	DOLL	224	.
880616	PM	2	1615	CHIN	97	.
880616	PM	3	1623	CHIN	98	.
880616	PP	2	1735	CHIN	81	.
880616	RL	1	1800	COHO	128	.
880616	RL	2	1805	CHIN	48	.
880616	RL	2	1805	CHIN	39	.
880616	RL	2	1805	CHIN	95	.
880616	RL	3	1812	CHIN	48	.
880621	PA	1	1540	CHIN	64	.
880621	PA	3	1550	CHIN	77	.
880621	PB	1	1615	CHIN	56	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880621	PB	1	1615	CHIN	63	.
880621	PB	2	1620	CHIN	54	.
880621	PB	3	1625	CHIN	52	.
880621	PB	3	1625	CHIN	45	.
880621	PB	3	1625	CHIN	57	.
880621	PB	3	1625	CHIN	60	.
880621	PB	3	1625	CHIN	63	.
880621	PB	3	1625	CHIN	79	.
880621	PM	1	1435	CHIN	89	.
880621	PM	1	1435	CHIN	82	.
880621	PM	1	1435	CHIN	67	.
880621	PM	1	1435	CHIN	79	.
880621	PM	1	1435	CHIN	88	.
880621	PM	1	1435	CHIN	90	.
880621	PM	1	1435	CHIN	62	.
880621	PM	1	1435	CHIN	42	.
880621	PM	1	1435	COHO	93	.
880621	PM	1	1435	COHO	108	.
880621	PM	2	1440	CHIN	89	.
880621	PM	2	1440	CHIN	82	.
880621	PM	2	1440	CHIN	84	.
880621	PM	2	1440	CHIN	44	.
880621	PM	2	1440	CHIN	54	.
880621	PM	2	1440	COHO	63	.
880621	PM	2	1440	RAIN	172	.
880621	PM	2	1440	SOCK	56	.
880621	PM	3	1445	CHIN	78	.
880621	PM	3	1445	CHIN	56	.
880621	PM	3	1445	CHIN	48	.
880621	PM	3	1445	CHIN	54	.
880621	PM	3	1445	CHIN	67	.
880621	PM	3	1445	RAIN	104	.
880630	PA	1	1315	CHIN	63	.
880630	PA	1	1315	CHIN	68	.
880630	PA	1	1315	CHIN	60	.
880630	PA	1	1315	CHIN	62	.
880630	PA	1	1315	CHIN	56	.
880630	PA	2	1320	CHIN	64	.
880630	PA	2	1320	SOCK	48	.
880630	PA	2	1320	SOCK	38	.
880630	PA	3	1325	CHIN	62	.
880630	PA	3	1325	SOCK	42	.
880630	PB	1	1145	CHIN	78	.
880630	PB	1	1145	CHIN	80	.
880630	PB	2	1150	CHIN	68	.
880630	PB	3	1155	CHIN	78	.
880630	PB	3	1155	CHIN	77	.
880630	PB	3	1155	CHIN	63	.
880630	PB	3	1155	CHIN	74	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880630	PB	3	1155	CHIN	84	.
880630	PM	1	1405	CHIN	88	.
880630	PM	1	1405	CHIN	75	.
880630	PM	1	1405	CHIN	79	.
880630	PM	1	1405	CHIN	57	.
880630	PM	1	1405	CHIN	58	.
880630	PM	1	1405	CHIN	82	.
880630	PM	1	1405	CHIN	74	.
880630	PM	1	1405	CHIN	72	.
880630	PM	1	1405	CHIN	85	.
880630	PM	1	1405	CHIN	55	.
880630	PM	1	1405	CHIN	78	.
880630	PM	1	1405	CHIN	90	.
880630	PM	1	1405	CHIN	78	.
880630	PM	1	1405	RAIN	139	.
880630	PM	1	1405	RAIN	138	.
880630	PM	2	1410	CHIN	65	.
880630	PM	2	1410	CUTT	208	.
880630	PM	3	1415	RAIN	150	.
880630	PP	1	1110	CHIN	66	.
880630	PP	1	1110	SOCK	59	.
880630	PP	2	1115	CHIN	65	.
880630	RL	1	1030	CHIN	57	.
880630	RL	1	1030	CHIN	67	.
880630	RL	1	1030	SOCK	59	.
880630	RL	1	1030	SOCK	56	.
880630	RL	2	1035	CHIN	61	.
880706	PM	2	1345	RAIN	140	.
880706	PP	1	1050	DOLL	323	.
880720	CH	1	1310	CHIN	62	.
880720	CH	1	1310	SOCK	58	.
880720	CH	2	1315	CHIN	71	.
880720	CH	2	1315	SOCK	61	.
880720	CH	3	1320	SOCK	53	.
880720	CH	3	1320	SOCK	57	.
880720	CH	3	1320	SOCK	58	.
880720	CH	3	1320	SOCK	57	.
880720	CH	3	1320	SOCK	67	.
880720	CH	3	1320	SOCK	60	.
880720	CH	4	1335	CHIN	65	.
880720	CH	4	1335	CHIN	81	.
880720	CH	4	1335	CHIN	67	.
880720	CH	4	1335	SOCK	57	.
880720	CH	5	1340	SOCK	63	.
880720	PA	1	1015	CHIN	55	.
880720	PA	1	1015	CHIN	62	.
880720	PA	1	1015	SOCK	50	.
880720	PA	1	1015	SOCK	59	.
880720	PA	2	1020	RAIN	385	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880720	PA	2	1020	SOCK	49	.
880720	PA	3	1025	SOCK	66	.
880720	PB	1	930	CHIN	79	.
880720	PB	2	935	SOCK	63	.
880720	PB	2	935	SOCK	39	.
880720	PB	2	935	SOCK	60	.
880720	PM	1	1105	CHIN	88	.
880720	PM	1	1105	CHIN	81	.
880720	PM	1	1105	CHIN	90	.
880720	PM	1	1105	CHIN	76	.
880720	PM	1	1105	CHIN	64	.
880720	PM	1	1105	CHIN	65	.
880720	PM	1	1105	CHIN	84	.
880720	PM	1	1105	CHIN	83	.
880720	PM	1	1105	CHIN	81	.
880720	PM	1	1105	RAIN	159	.
880720	PM	1	1105	RAIN	115	.
880720	PM	1	1105	RAIN	176	.
880720	PM	1	1105	RAIN	233	.
880720	PM	1	1105	SOCK	64	.
880720	PM	1	1105	SOCK	60	.
880720	PM	1	1105	SOCK	64	.
880720	PM	1	1105	SOCK	71	.
880720	PM	1	1105	SOCK	67	.
880720	PM	1	1105	SOCK	60	.
880720	PM	1	1105	SOCK	67	.
880720	PM	1	1105	SOCK	65	.
880720	PM	2	1115	CHIN	83	.
880720	PM	2	1115	RAIN	152	.
880720	PM	2	1115	RAIN	180	.
880720	PM	3	1120	CHIN	86	.
880720	PM	3	1120	CHIN	77	.
880720	PM	3	1120	RAIN	128	.
880720	PP	1	855	SOCK	57	.
880720	PP	1	855	SOCK	60	.
880720	PP	1	855	SOCK	61	.
880720	PP	1	855	SOCK	66	.
880720	PP	2	900	CHIN	66	.
880720	PP	3	905	SOCK	69	.
880720	RL	1	815	CHIN	82	.
880720	RL	1	815	CHIN	77	.
880720	RL	1	815	CHIN	76	.
880720	RL	1	815	CHIN	78	.
880720	RL	1	815	CHIN	73	.
880720	RL	1	815	SOCK	48	.
880720	RL	1	815	SOCK	52	.
880720	RL	2	820	CHIN	68	.
880720	RL	2	820	CHIN	75	.
880720	RL	2	820	CHIN	84	.

Fraser River Beach Seine Data - 1988
Length Data From Live Juvenile Salmonids

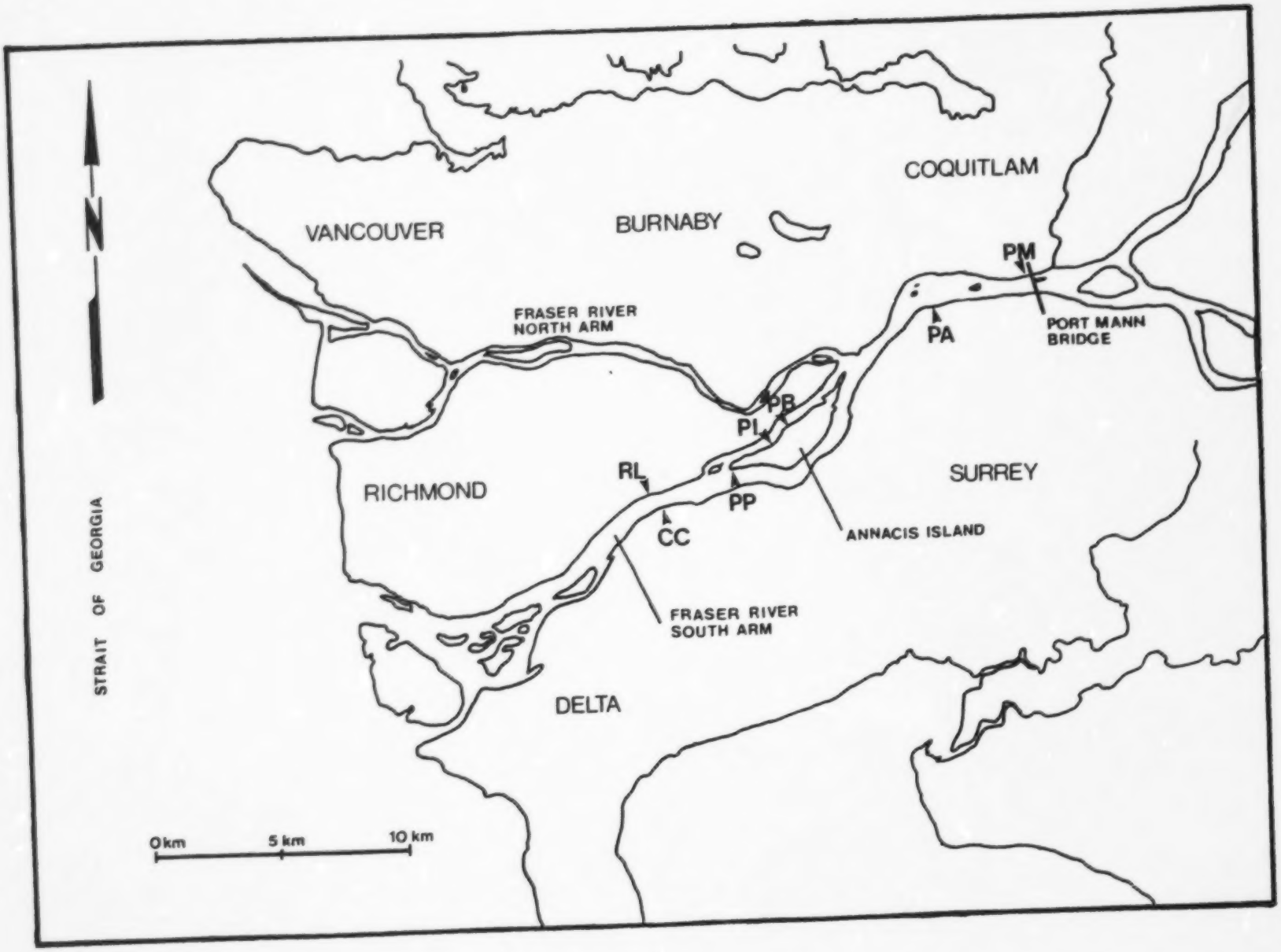
DATE	SITE	SET	TIME	SPECIES	LENGTH	ORIGIN
880720	RL	2	820	CHIN	85	.
880720	RL	2	820	CHIN	76	.
880804	PA	1	1010	CHIN	95	.
880804	PA	1	1010	SOCK	54	.
880804	PA	1	1010	SOCK	55	.
880804	PA	2	1015	CHIN	74	.
880804	PA	2	1015	CHIN	75	.
880804	PA	2	1015	SOCK	57	.
880804	PA	2	1015	SOCK	69	.
880804	PB	2	925	SOCK	62	.
880804	PM	1	1050	SOCK	62	.
880804	PM	2	1055	CHIN	77	.
880804	PM	2	1055	DOLL	268	.
880804	PM	2	1055	RAIN	148	.
880804	PM	2	1055	SOCK	62	.
880804	PM	3	1100	CHIN	94	.
880804	PM	3	1100	DOLL	335	.
880804	PP	1	820	SOCK	57	.
880804	PP	1	820	SOCK	59	.
880804	PP	1	820	SOCK	65	.
880804	PP	2	830	SOCK	55	.
880804	PP	3	837	CHIN	104	.
880804	PP	3	837	SOCK	66	.
880804	RL	1	635	CHIN	88	.
880804	RL	1	635	SOCK	68	.
880804	RL	1	635	SOCK	62	.
880804	RL	1	635	SOCK	64	.
880804	RL	2	640	RAIN	359	.
880804	RL	3	645	SOCK	65	.
880817	RL	1	1425	CHIN	73	.
880817	RL	1	1425	SOCK	75	.
880830	PA	1	1600	CUTT	265	.
880830	RL	1	1330	CUTT	376	.

Table 6. Summary of coded wire tag data from beach seine caught juvenile salmon captured in the Fraser River during 1988.

SAMPLE DATE	SITE	SPECIES	BROOD (YR)	HATCHERY ORIGIN	LENGTH (mm)	WEIGHT (gms)	CWT CODE
880526	PB	CHIN	1987	CHILLIWACK R.	71	4.46	2-51-62
880525	PB	CHIN	1987	CHILLIWACK R.	71	3.96	2-51-61
880526	PB	CHIN	1987	QUESNEL R.	69	3.52	2-47-60
880526	PA	CHIN	1987	CHILLIWACK R.	74	4.24	2-51-62
880527	PA	CHIN	1987	CHILLIWACK R.	82	6.10	2-51-59
880527	PB	CHIN	--	-----	65	3.06	NO PIN
880527	PM	COHO	1986	CHILLIWACK R.	113	13.68	2-50-34
880527	RL	CHIN	1987	CHILLIWACK R.	71	3.48	2-55-42-R1
880531	PB	CHIN	1987	CHILLIWACK R.	93	8.78	2-51-58
880531	PA	CHIN	1987	CHILLIWACK R.	71	3.58	2-55-42-R1
880531	PM	CHIN	1987	CHILLIWACK R.	84	7.96	2-51-62
880531	PM	CHIN	1987	CHILLIWACK R.	76	4.90	2-51-61
880531	PM	CHIN	1987	CHILLIWACK R.	90	9.02	2-51-58
880531	PM	CHIN	1987	CHILLIWACK R.	86	7.56	2-51-59
880531	PM	CHIN	1987	CHILLIWACK R.	84	6.92	2-51-62
880531	PM	CHIN	1987	CHILLIWACK R.	78	5.96	2-51-61
880531	PM	CHIN	1987	CHILLIWACK R.	77	4.46	2-51-61
880531	PM	CHIN	1987	CHILLIWACK R.	94	10.08	2-51-58
880531	PM	CHIN	1987	CHILLIWACK R.	84	6.74	2-51-58
880531	PM	CHIN	1987	CHILLIWACK R.	94	9.58	2-51-57
880602	PM	CHIN	1987	CHILLIWACK R.	76	5.32	2-51-62
880602	PM	CHIN	1987	QUESNEL R.	82	7.08	2-51-04
880602	RL	CHIN	1987	QUESNEL R.	78	5.86	2-51-04
880602	RL	COHO	1986	INCH CR.	118	16.80	2-51-14
880602	RL	CHIN	1987	QUESNEL R.	71	4.16	2-47-59
880602	PB	CHIN	1987	CHILLIWACK R.	74	4.74	2-51-61
880602	PP	CHIN	1987	QUESNEL R.	81	5.70	2-47-53
880607	PA	CHIN	1987	SPIUS CR.	104	11.42	2-51-50
880607	PA	CHIN	1987	CHILLIWACK R.	74	4.52	2-51-61
880607	PA	CHIN	1987	CHILLIWACK R.	92	7.76	2-51-58
880607	PM	COHO	1986	CHILLIWACK R.	129	20.44	2-50-38
880607	PM	CHIN	1987	CHILLIWACK R.	85	6.22	2-51-60
880607	PM	CHIN	1987	CHILLIWACK R.	84	6.78	2-51-61
880607	PM	CHIN	1987	CHILLIWACK R.	78	5.72	2-51-61
880607	PM	CHIN	1987	CHILLIWACK R.	78	6.28	2-51-62
880607	PM	CHIN	1987	CHIILLWACK R.	81	6.36	2-51-57
880607	PM	CHIN	1987	CHILLIWACK R.	78	5.38	2-51-62
880607	PM	CHIN	1987	CHILLIWACK R.	80	6.58	2-51-61
880607	PM	CHIN	1987	CHILLIWACK R.	88	8.04	2-51-58
880607	PM	CHIN	1987	CHILLIWACK R.	81	6.20	2-51-62
880607	PM	CHIN	1987	CHILLIWACK R.	92	8.52	2-51-57
880607	PM	CHIN	1987	CHILLIWACK R.	84	6.74	2-51-61
880607	PM	CHIN	1987	CHILLIWACK R.	88	7.70	2-51-58
880607	PM	CHIN	1987	CHILLIWACK R.	90	7.48	2-51-58
880607	PM	CHIN	1987	CHILLIWACK R.	91	8.28	2-51-60
880607	PM	CHIN	1987	CHILLIWACK R.	83	6.28	2-51-62

SAMPLE DATE	SITE	SPECIES	BROOD (YR)	HATCHERY ORIGIN	LENGTH (mm)	WEIGHT (gms)	CWT CODE
880607	PM	CHIN	1987	CHILLIWACK R.	80	5.76	2-51-61
880607	PM	CHIN	1987	CHILLIWACK R.	87	7.18	2-51-58
880607	PM	CHIN	1987	CHILLIWACK R.	91	9.62	2-51-58
880609	PM	CHIN	1987	CHILLIWACK R.	89	7.86	2-51-62
880609	PM	CHIN	1987	CHILLIWACK R.	90	9.76	2-51-57
880609	PM	CHIN	1987	CHILLIWACL R.	98	10.58	2-51-58
880609	PM	CHIN	1987	CHILLIWACK R.	83	6.78	2-51-58
880609	PM	CHIN	--	-----	88	7.16	NO PIN
880609	PM	CHIN	1987	CHILLIWACK R.	75	4.88	2-51-62
880609	PM	CHIN	1987	CHILLIWACK R.	95	9.56	2-51-57
880609	PM	CHIN	1987	CHILLIWACK R.	93	9.10	2-51-62
880609	PM	CHIN	1987	CHILLIWACK R.	87	6.92	2-51-58
880609	PM	CHIN	1987	CHILLIWACK R.	78	5.26	2-51-61
880609	PP	CHIN	1987	CHILLIWACK R.	82	5.62	2-55-42-R2
880609	PP	CHIN	1987	CHILLIWACK R.	78	5.28	2-55-42-R1
880616	PP	CHIN	1987	QUESNEL R.	75	5.14	2-51-06
880616	PM	CHIN	1987	QUESNEL R.	103	12.58	2-51-05
880616	PM	CHIN	1987	CHILLIWACK R.	75	4.46	2-51-62

Figure 1. Location of beach seine study sites on the Fraser River below Port Mann during 1988.


N
STRAIT OF GEORGIA
VANCOUVER
BURNABY
COQUITLAM
FRASER RIVER
NORTH ARM
PM
PORT MANN
BRIDGE
PA
PB
PI
RL
PP
CC
RICHMOND
SURREY
ANNACIS ISLAND
FRASER RIVER
SOUTH ARM
DELTA
0 km
5 km
10 km